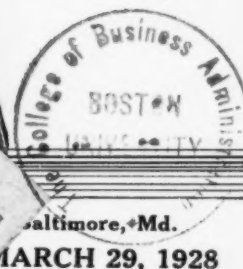


Manufacturers Record

Exponent of America



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Southern Industry a Factor in Bettering Health and Living Conditions of Labor.

Dean Walter J. Matherly, of the College of Commerce and Journalism of the University of Florida, in this issue presents a striking human interest story. It is based on his personal experience as to the advantages which cotton mill employment gives to the people of the mountain sections of the South and to those from many of the small and unprofitable farms. Here is shown a steady evolution to the higher and better things which have come about by the development of the South's cotton industry.

In this connection it is interesting to repeat some statements made to the editor of the Manufacturers Record a few weeks ago by a distinguished scientist well known throughout America. He reported that some years ago, when the hookworm was being much discussed, a celebrated specialist in that line carefully investigated every operative in two cotton mills closely located in the Central South. One was an old mill built in the early days of cotton manufacturing. It was without modern conveniences. It would today be regarded as entirely out-of-date. The operatives had few advantages or comforts. An examination of every operative in that mill showed that 30 per cent of the employees were suffering from hookworm.

The other mill was modern and up-to-date in every particular, with every modern convenience that could be desired. At the time of the investigation some years ago the number of employees who had the hookworm in that mill was as high as 78 per cent, and the experienced physician who made the investigation decided that the reason for this discrepancy was that the employees in the old mill, having come out of the little huts in the poorer mountain districts, had steadily benefited physically, even under the inadequate advantages they had in the old mill, and that they were gradually, by the betterment of their condition, getting rid of the hookworm disease.

On the other hand he found that the operatives in the new mill were fresh from the small farms of the mountain regions and had not had time to receive any benefit by their change of environment. He found that the operatives in the old mill were, even under the adverse conditions of work, becoming more and more healthy than when they lived on their little mountain farms; whereas, the operatives in the new, modern mill had not been away long enough to get the improvement which would inevitably come to them the longer they stayed in the mill and away from the mental and physical conditions under which they had been living.

Dean Matherly's whole story strikingly illuminates the situation as to the upward movement that has been going on through the advancement of the operatives in the Southern cotton mills and the tremendous blessing which this has been to them. It not only gave them an opportunity to work and earn a living wage, but an opportunity for a broader life.

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Baltimore, Md., March 29, 1928

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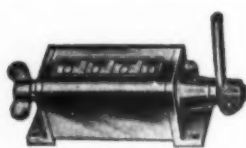
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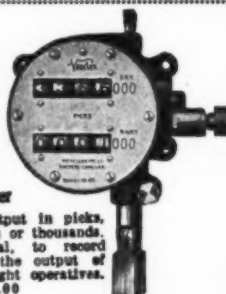
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The Gold and Financial Situation as Viewed by One of England's Great Financiers.

REGINALD McKENNA, former Chancellor of the Exchequer, and now chairman of the Midland Bank, Ltd., of London, in addressing the shareholders of that bank at their annual meeting stated that the "dollar standard" rather than a "gold standard" will probably determine the world level of prices, inasmuch as America is the chief creditor nation, and hence the magnet of the world's precious metal. The United States, he said, was rich enough either to lose or to gain great sums of gold without affecting the supremacy of the dollar standard as dictated by its central banking policy.

"Nearly three years," said he, "have elapsed since the pound sterling was established on a gold basis, and the most important currencies are now stabilized on a reversion to gold. This general reversion to gold gives the appearance of a return to pre-war conditions in matters of credit and currency, but if we look further into the question we shall find there has been a remarkable change." Mr. McKenna continued:

"The development of the central bank policy of the United States has shown that, while gold may be retained as the medium of making international payments, it can be deprived of its function as the ultimate standard of value.

"In consequence of the enormous accumulation of gold, coupled with the movements into and out of the country, which if left uncontrolled would prove disastrous to the stability of the American price level, the attention of the Reserve banks was forcibly directed to their controlling powers. Beginning with only a partial use they have learned to utilize these powers to the full.

"The Reserve Bank authorities saw in 1920 that if gold were allowed to function to its fullest extent it would lead to the perpetuation of inflation. They determined, therefore, to deprive the incoming gold of its credit-creating capacity until the demand of trade should call for a larger credit basis. Then ensued the experiments in the scientific control of gold by a process heretofore unknown. As another \$1,000,000,000 in gold flowed into the United States in 1920-1922, the Reserve banks absorbed the gold and held it in place of discounted bills.

"The immediate effect of the incoming gold was to increase the bank cash, but the whole increase was used by the member banks to pay off maturing gold bills held by the central banks, so that on the balance column, bank cash was not increased. * * * The American price level is controlled by the policy of the Reserve banks in expanding or contracting credit. The mechanism whereby the dollar governs the external value of gold is obvious. If the price level outside of America should rise because of an increase in the supply of gold, America would absorb the surplus gold. If the external price should fall because of a shortage of gold, America would supply the deficiency. The movement of gold would continue till the price levels inside and outside of America were brought to a state of equilibrium.

"Although gold is still the nominal basis of most currencies,

the real determination of movements in the general level of world prices is thus the purchasing power of the dollar. In a very real sense, the world is on a dollar standard. * * * Moreover, her creditor position makes her a permanent magnet for gold. Her debtors must pay, and if they can find no other way, must pay in gold. The only way for her to lose this position would be for America continuously to lend abroad beyond her capacity."

What mighty changes are here indicated in the long-established idea of financiers that gold was an unchanging value, or yardstick by which all other values or prices must be measured. The world has been going through its most tremendous revolutionary financial change. Movements of stupendous importance have been, and are, under way. It is difficult for the mind to grasp the extent and influence of these changes by which the unprecedented power of the Federal Reserve System is largely shaping not only the destiny of America, but the destiny of the world.

Another phase of the situation is presented in an extensive editorial review in the New York Journal of Commerce, edited by H. Parker Willis, who was long connected with the Federal Reserve Board. Discussing the recent statements of Mr. McKenna in praise of the Federal Reserve System, the Journal of Commerce said:

"The danger inherent in this American-induced British view of our ability to control prices cannot be ignored. It is dangerous, first of all, because it is false. Prices in the United States have not been stable and the belief that they have been leads to unjustified praise of the adequacy of our credit policy. As often said, gold received from abroad has not been harmlessly impounded. It has become the basis of an inflation of security values that, despite the fact that it has left commodity prices relatively untouched, is very serious. Moreover, apart from speculative inflation, it is seriously open to doubt whether our commodity price level is stable to the extent assumed. Certainly it is exceedingly unreliable, judged by pre-war standards. Furthermore, there are many evidences that factors unrelated to credit policy have been operative to depress the prices of some commodities quite decidedly, while changes in demand, artificial restriction schemes, etc., have contrariwise advanced other commodity prices.

"Price stability implies a good deal more than the absence of excessive fluctuations in the average price levels of a limited number of goods. To maintain a balance among different industries, some profiting from rising prices, others struggling to offset declines, is not an easy task. But it is the most important requirement of a judicious credit policy. We have not yet solved that problem and we should be making a sad mistake to permit outside critics to flatter us into a conviction that everything we have done is all for our own good as well as to the gain of the rest of the world."

There is some danger that too many American people may regard the Federal Reserve System as a fetish which cannot

make a mistake and therefore they fall down and worship it without at all understanding some of the dangers inherent in its operations. Will its policies be of wisdom or of unwisdom? The deflation policy of 1920, which it was said "well-nigh wrecked the universe," was a policy of unwisdom, and some of those who took part in bringing that policy about have since realized their mistake.

The day after the Federal Reserve bill was adopted by Congress the writer, in an interview in a Southern paper, said that the greatest financial power ever given by legislation to seven men in human history had been given to the Reserve Board, and that, if wisely used, this power might be made an untold blessing to this country. But that as great as was its power for good, so was its power for evil if it should ever fall into the hands of men who did not realize their responsibility, and did not have wisdom enough to guide the board's affairs.

This is still true.

Upon the men who control the Federal Reserve System rests not only a national, but a world-wide responsibility, the extent of which cannot be overestimated. We hope this responsibility is breeding in these men a full recognition of their power for good. Any man connected with the Federal Reserve System who dares to use its influence or his knowledge for financial profit for himself or his friends is committing a crime against humanity which even the Seven Seas of the world could not wash out. We hope, however, that this very responsibility is broadening the minds of these men and in them developing a wisdom greater than that ever given to any board or commission in the history of the world. For good or for evil their power is limitless.

PHILADELPHIA SETS AN EXAMPLE OF PUTTING MEN AND MONEY TO WORK.

ON lines long urged by the MANUFACTURERS RECORD, leaders in various industries in Philadelphia, Pa., have pledged themselves to begin the expenditure of \$126,000,000 in construction programs to relieve the unemployment situation. According to a special investigating committee, 65,000 men and women were out of work, although this was fewer than in last October and November.

For the Pennsylvania Railroad, for instance, it was announced that it would start its construction program now and would spend \$60,000,000 this year. The United Gas Improvement Company said it would begin within 30 days a \$20,000,000 construction program. The Philadelphia Electric Company is to spend \$12,000,000 this year, beginning work at once, and the Bell Telephone Company is prepared to spend \$29,000,000 in the eastern district.

"Every indication points to a good year in business for 1928, and an absorption of the unemployed. It is with this feeling that the Pennsylvania Railroad is willing to plunge ahead on its program," said Vice-President Elisha Lee.

By putting men and women to work and by putting \$126,000,000 into circulation, the industrial leaders of Philadelphia will do much to promote the good business which Mr. Lee forecasts. Who will follow? Let the answers come quickly.

FOR THE GOOD OF THE COUNTRY.

IN closing a letter to the MANUFACTURERS RECORD John T. Cochrane, president of the Alabama, Tennessee and Northern Railroad Company, Mobile, says: "We in this country, and I especially, am keenly appreciative of the MANUFACTURERS RECORD and the good it does throughout the South and the whole nation."

THE COTTON INVESTIGATION IN CONGRESS.

THE charges made by former President Marsh of the New York Cotton Exchange in regard to the manipulation of the cotton market gave what might be called official recognition to what has been common report in New York and throughout the South for many years.

It is well that this investigation is being made, and it should be carried to the farthest possible point toward proving the accuracy or inaccuracy of these charges. For years there has been general talk in the cotton circles of the country, and especially in New York, to the effect that a large amount of practically worthless cotton is held in that city for the express purpose of using it to break the market whenever it suited the convenience of great speculators. Since the rules of the exchange permit the tendering of different grades of cotton regardless of what a purchaser may have contracted for, this worthless, ragtail cotton can be made to dominate the market situation. That claim has been repeatedly made, and some years ago a statement to that effect was written for the MANUFACTURERS RECORD by a member of the New York Cotton Exchange, but he afterwards recalled the article on the ground that he was afraid these statements might be traced to him and result in the ruination of his business or his expulsion from the cotton exchange for divulging market secrets.

It was common talk in New York twenty years ago that one of the great cotton houses of that city had threatened to bankrupt anybody who sought to "bull" the cotton market.

In the days when Daniel J. Sully was making his tremendous fight—and we believe that outside of his personal interest in profit he really had at heart the interests of the cotton growers—Sir Charles Macara, one of England's foremost cotton manufacturers, organized the International Cotton Spinners Association, as he has repeatedly stated, for the express purpose of breaking down the price of cotton at that time. Several years ago Mr. Sully stated to the MANUFACTURERS RECORD that while in England during this campaign he gave at a public dinner of cotton men his estimate as to the next cotton crop. A number of those present offered to bet heavily against his estimate, until in the aggregate there were about \$100,000 in bids against him, he said, and the final crop was considerably less than his estimate, but every bettor welshed on his bet and he had never been able to collect a cent.

Mr. Sully knew the ins and outs of the cotton market in those days remarkably well. He knew the forces at work to break down the price of cotton, and if he could testify before the Congressional committee he could doubtless throw a great deal of light on what went on in the cotton trade during the days of his great bull movement. While Congress is conducting this investigation it should be made as thorough as is humanly possible, and if the charges by former President Marsh of the Cotton Exchange can be substantiated some drastic remedy should be applied to make it impossible for such conditions hereafter to prevail.

JUTE IMPORTATIONS THROUGH SOUTHERN PORTS.

ANNOUNCEMENT is made that a direct line of steamships will be established between Calcutta and Savannah, and possibly other Southern ports, to bring jute to the South. This jute will be used for making bagging for cotton bales.

Every bale of cotton should be wrapped in cotton goods. It can be done, and the people interested in cotton should use their utmost exertion to bring about the wrapping of cotton bales with cotton goods.

"When Will Florida Come Back?"

THE question is being asked in all parts of the country, and the query comes often to the **MANUFACTURERS RECORD** as well as to many other papers, "When will Florida come back?"

The answer might be, Florida never went away. It does not, therefore, have to come back. It is still at home. Some wild boomers of Florida town lots, who were carried away by the same kind of speculative fever that breaks out occasionally in Wall Street, have gone away. They may never come back. It will be a good thing if they do not.

Florida people themselves were in many cases caught by the wild booming of town lots as well as the people of other sections, who listened to the siren voice of the town-lot sellers and plunged into the great gambling game. Both classes often bought town lots without seeing them. They did not know, in many cases, whether they were above or under water. Florida became crowded with speculators in town lots who bought only for the purpose of selling to someone else before the second payment became due. Those who bought well-located property and were able to pay for it will probably not only get their money back, but profit on top of it if they are willing to wait for a reasonable length of time.

Florida, the real Florida, never went away, and, therefore, it does not have to come back. That Florida which has a climate that has brought health to hundreds of thousands of people, that means new strength and invigoration to the hundreds of thousands who annually visit the State; that Florida whose climate is recognized throughout the world as unmatched, is still there. That climate is a greater material asset for the creation of wealth than is all the coal and iron of Pennsylvania or Alabama. As the coal and ore of these States are mined and consumed the amount available for future generations is lessened, but Florida's climate is permanent. It is there for all time to come, or so long as this good old world lasts. If its value could be definitely estimated, as the coal and iron of other States can be figured out, it would show an asset so vast as to be almost beyond comprehension.

Rev. Newell Dwight Hillis, the noted preacher and author, a few days ago while in Florida said to the writer: "If I could assemble in one crowd all the people I know personally whose health has been improved and their lives lengthened by Florida's climate and have them testify to that by the uplifted hand, there would be such a showing of upraised hands as the world never saw before." This is in keeping with a statement by Darwin P. Kingsley, president of the New York Life Insurance Company, who while in Florida wrote the **MANUFACTURERS RECORD**: "Climate is the key that unlocks the gates of Paradise."

The Florida of the orange grove, and the grapefruit grove, is still there, and has never gone away. Every year it is increasing its acreage in citrus fruits, and as its marketing system is developed to make more certain of securing the best results for the growers and the best of oranges and grapefruit for the consumer, the demand will increase as rapidly as production.

The Florida whose soil and sunshine combine to make this the vegetable garden of the nation is still there. It never went away. With lower freight rates, which are almost certain to come in time, and the better handling by water transportation and the utilization of the inland waterways of Florida, it will be possible to put Florida's early vegetables—tomatoes, peas, beans, cabbage, strawberries and almost every other truck crop—into the markets of the East and West at a lower cost for freight than is now possible. The

vast potentialities in this trucking business of Florida never went away, so they did not have to come back.

Florida's resources in its fishing industry are a great source of large wealth. An ocean and gulf frontage of over 2000 miles, and inland rivers and lakes teeming with fish for local consumption and for shipment elsewhere, never went away and, therefore, never had to come back.

Florida's growing lumbering interests and all the ramifications of this industry and the increased attention that is being given to forestry have remained at home and never had to come back.

The splendid hotels which dot the entire State are there for permanency. Some of them were there long before the town-lot boom. Some were built as an outcome of that boom. They are there to stay. They never went away, and as the years go by and some of the exaggerated prices put on some of these properties have been adjusted, the tide of tourists will keep on increasing and all the hotel facilities of Florida will be needed to take care of this ever-swelling tide of people who for pleasure or health seek to escape the biting blasts of Northern and Western winters, and bask in the sunshine and health-giving qualities of Florida climate. The tourist business is there to stay, and its growth will be in keeping with the increase in wealth and population of the country and in keeping with the ever-growing desire of the American people to get away from cold weather and to seek health in the warmer climate of Florida.

Florida's wonderful system of highways covering the whole State not only never went away, but has kept on rapidly growing until that State has become known nationwide for its superb roads and therefore it is a permanent asset of measureless value.

The spirit of the people—those who have come from every State in the South to a larger extent than from any other part of the country, those who have come from the North and West to make their permanent home there—is still a Florida asset which never went away. It is there to stay. It is there to grow in power and influence, and though somewhat dampened in its ardor for a little while by reason of the reaction from the town-lot boom, it is catching its second wind, and this time instead of being concentrated upon real estate operations of a speculative character, its attention will be given to the broad industrial, agricultural and commercial development of the State.

Its industrial potentialities are being more and more realized by the people of Florida and by the people outside of Florida. Its agricultural potentialities are becoming the subject of nation-wide discussions, and as during the winter season of six months an average of about 2000 carloads of fruits and vegetables go out of Florida every day to other parts of the land to help feed the nation and maintain the people's health, so there is being developed throughout the country an education as to Florida such as we never had before. Every good orange or grapefruit sent out of Florida is an agent for the good of the State.

In reality, the boom spirit, though disastrous to many local and outside buyers of town lots, was a tremendous advertisement of the whole Southeast. It made the nation discuss the South and its possibilities as it had never done before. The very effort made by bankers and others in the North and West to keep money from flowing into Florida created on the part of the people of those communities a deeper interest in Florida than they had ever had. And Florida advertised not only itself, but it advertised Georgia, and Alabama, and the Carolinas, and all the Southern territory; for it stimulated and stirred the people of the whole South

and created a greater demand for knowledge about the South than had ever before existed in America.

Will Florida come back? Florida is here to stay. The good people—not the gamblers and the sharks—and the money that for the time being was badly scared, fearing that the State was “busted,” are beginning to get a second breath and having once tasted of the advantages of Florida, they, too, to a large extent will soon be coming back. They will find the same good, old Florida, the same matchless climate, the same health-giving qualities, the same industrial, agricultural and commercial advantages, the same soil, the same timber, the same rivers and lakes, the same ocean and the same gulf which help with the glorious sunshine to make Florida what it was, what it is, and what it will be as the years roll on, and real substantial wealth will increase more rapidly than that supposed wealth during the boom period.

Florida is here to stay, here to grow, here to command the ever-increasing attention of the nation, here to draw thousands and tens of thousands of well-to-do people and the great rich and people of moderate means who can find in this climate renewed health and strength, and win a longer life thereby than they could possibly have had if they had not caught the joy of spending a few months every winter, or a lifetime in Florida.

Last summer there was general comment among visitors to Atlantic City on the fact that there were a great many more vacant stores on the Boardwalk than had ever been seen there before. Up and down that long stretch of several miles every passer-by was struck with the number of “for rent” signs on every variety of building. Stores large and small were vacant, and this was likewise true of many offices located on the Boardwalk. A leading physician of the city, commenting on that situation, said to the writer that on one of the streets paralleling the Boardwalk there were over 200 stores for rent. The hotels were constantly complaining of the shortage of guests, and one of the larger hotels on the Boardwalk reported that 50 families which had for years spent their summers at that house were last year in Europe. A similar condition probably existed in connection with the regular guests of every other leading hotel.

It may be seriously doubted if any town in Florida can show in proportion to population one-half as many vacant stores as Atlantic City had last summer. So serious was this that the merchants and the Boardwalk auctioneers did not hesitate to press upon visitors the necessity for getting ready cash for goods offered at ridiculously low prices. And yet nobody has raised the question as to whether Atlantic City will come back or not. It was passing through one of those periods where the general business depression of the entire country was seriously affecting its real estate interests and its hotels.

Judging by the conditions prevailing at Atlantic City last summer, as compared with years of crowded tourist business, one might have been justified in asking, Will Atlantic City come back? fully as much as the question, When will Florida come back? Atlantic City wisely went steadily forward with its work of developing its advantages for tourists and conventions; it pressed the building of an enormous auditorium which will have a seating capacity of about 40,000 people; it kept on with some new building operations to be ready for the time when the tide would turn.

Whenever the general business interests of the United States make a decided turn for the better and there comes a broader spirit of optimism and of buying—for we have had what might be called a buyers' strike for the last 12 months—Florida will share fully in this revival. Already there are signs here and there of increasing activity in building operations and the spirit of constructive, upbuilding work is reviving throughout the whole State. This will grow as rapidly as the business revival in America goes on.

SOUTH SETS PRODUCTION RECORD IN SAVING COUNTRY FROM COAL FAMINE.

LAST year, as estimated by the Bureau of Mines, the United States produced 600,456,000 tons of coal. Of this amount 273,297,000 tons, or more than 45 per cent, were mined in the Southern States.

While the country as a whole showed a decreased output of 57,348,000 tons, as compared with 1926, the South increased its production by 14,461,000 tons during this period. In fact, last year Southern coal mines produced the largest tonnage in their history and mined 3,613,000 tons more of coal than were mined in the whole country in 1900, which strikingly indicates the tremendous development of this basic industry in the South. It enabled this section to keep the fires of industry burning at a time when the country was threatened with a coal famine by the closing of unionized coal fields during the strike of union miners. Due credit should be given to the independent coal miners of the South and to the Southern coal operators for saving the country from what might have been a most critical situation, but instead, through the recent action of the Interstate Commerce Commission in refusing to permit a freight rate reduction voluntarily offered by Southern railroads, we practically see a prohibition placed upon Southern coal in Northern markets, where it comes in direct competition with union-mined coal. One wonders how long the coal consumers of the country will meekly submit to such action, which virtually means they are not allowed to secure the advantage of the coal freight rate reduction the railroads were willing to grant, but which, with an imperious hand, the Interstate Commerce Commission withholds.

Above all, let us not forget that the independent coal miners and operators not only saved the nation from a coal famine last year, but that the Southern coal industry has come to the nation's rescue at other times in the past and is a constant check upon the unreasonable demands of union miners who control the unionized coal fields of the country.

SOUTHERN COAL PRODUCTION.

States	1926, Tons	*1927, Tons
Alabama	21,000,962	18,400,000
Arkansas	1,459,017	2,079,000
Kentucky	62,924,462	72,628,000
Maryland	3,078,353	2,890,000
Missouri	3,008,495	2,741,000
Oklahoma	2,842,673	3,125,000
Tennessee	5,788,741	5,256,000
Texas	1,091,156	1,134,000
Virginia	14,133,386	13,366,000
West Virginia	143,509,340	151,680,000
Total	258,836,587	273,297,000
United States	†657,804,437	†600,456,000

*Preliminary estimate, Bureau of Mines. †Includes 84,437,452 tons of Pennsylvania anthracite. ‡Includes 80,652,000 tons of Pennsylvania anthracite.

LOSS BY FOREIGN COMPETITION.

THE MANUFACTURERS RECORD is advised that the plate glass manufacturers of this country have suffered keenly from competition by Belgian plate glass producers, resulting in forcing American manufacturers to sell plate glass at such ruinous prices that they have applied to the President for an emergency tariff increase. This is but another illustration of the destructive results which the American industries suffer from the severe competition of European manufacturers, who by reason of almost starvation wages are able to undersell the manufacturers of this country. Every industrial worker who is thrown out of employment by reason of this competition adds to the difficulties of the farmers in finding a market for their products, for idle laborers are not able to buy freely of foodstuffs, of clothing, or other things necessary to comfortable living conditions.

The Industrialization of the South.

By WALTER J. MATHERLY, University of Florida, Gainesville.

The new era in the South is largely the product of industrialism. The progress, social and cultural and otherwise, which has characterized the Southern States during the past quarter of a century or more, could not have occurred had not this section had a solid industrial foundation upon which to build. The ultimate explanation of the South's ascendancy lies not so much in the realm of social or cultural inheritance as in the realm of economics. The magic force which has wrought the transformation is, in the last analysis, that of manufacturing—the power to convert raw materials, formerly exported, into finished products.

In 1793, Eli Whitney, a New Englander and a graduate of Yale, while living in the South, invented the cotton gin. During the next quarter of a century, the Southern States learned that cotton growing with slave labor was more profitable than manufacturing. In spite of the fact that the South led the nation in manufacturing up to 1810, when the full economic significance of the cotton gin was discovered, the cotton gin dealt a death blow to manufacturing. As a result, the South became a slave to King Cotton for almost 100 years.

But, just as the cotton gin enslaved the South, so the cotton spindle many decades later liberated the South. At any rate, it saved the South from utter dependence on one type of agriculture, made cotton king not only on the farms, but also in the mills, and set in motion economic currents which relieved the pressure for food, clothing and shelter and which enabled the Southern people to devote more of their energies than formerly to achievements other than those of survival. However much, therefore, the critics of Southern industrialism may bemoan what they consider the deplorable conditions in Southern mill villages; exhibit what they regard as the evils of low wages, and set forth what they allege is inexcusable labor exploitation, the fact that the cotton spindle freed the Southern people forever from the tyranny of the cotton gin will not long be forgotten in the annals of the South.

The industrialization of the South began in earnest during the last two decades of the Nineteenth Century. It consisted first of cotton mills almost altogether—cotton mills devoted primarily to the production of coarse yarns. Later mills manufacturing finer yarns appeared, finishing plants were established and the South, particularly the Carolinas and Georgia, became a formidable rival of New England. Today the center of gravity in cotton manufacturing has shifted almost entirely from New England to the South.

But the South has not been content with the development of cotton manufacturing alone. In North Carolina, Virginia and Kentucky tobacco manufacturing on a large scale has also been developed. In Alabama, Virginia and Tennessee the production of iron and steel has received great impetus. In North Carolina and Tennessee the furniture industry has become important. In a number of States the lumber industry takes high rank. In almost every section of the South the cottonseed oil industry, the fertilizer industry and a score of other industries, local or sectional in character, have arisen to make their contributions to general industrial well-being.

The industrial center of the South is the Piedmont Belt. This region is a strip of land some 75 or 100 miles wide, lying between the foothills of the Blue Ridge Mountains and what is known in the South Atlantic area as the Coastal Plain. It extends from Danville, Va., on the north to Birmingham, Ala., on the south. It is a territory covered with a network

of efficient transportation facilities, endowed with an abundant native labor supply and richly blessed with hydroelectric power—a territory offering every inducement to economical production. In the words of the late Franklin K. Lane, former Secretary of the Interior, it is a region "destined to become the greatest industrial area of the United States."

With the industrialization of the Piedmont Belt, the South has attained a pretty fair degree of economic stability. It has ceased to depend upon the growing of cotton and tobacco alone. A crop failure does not now of necessity lead to disaster. Inactivity on the farm may be offset by activity in mill and factory. Depression in the textile industry may be partially counteracted by prosperity in tobacco manufacturing, iron and steel fabrication or furniture production. Indeed, the South is no longer subject to the uncertainties of agriculture. Nor is it even an area subservient to one industry—cotton manufacturing—Broadus Mitchell and others to the contrary notwithstanding. Although it is still a great agricultural territory, it is a great agricultural territory plus—plus equally prosperous manufacturing, plus winter and summer playgrounds, plus increasing wealth of almost every description.

Contrary to the view expressed in some quarters, the South's industrialism has elevated, rather than degraded, labor. It has provided employment for farm tenants and other types of labor, both rural and urban, which did not exist under the preceding order. Lowlanders, midlanders and highlanders were taken from low-paid menial tasks or from profitless agricultural pursuits and taught to operate semi-automatic machines, enabling them not only to earn more money and set up higher standards of living than formerly, but also to follow occupations of greater interest and attractiveness.

Perhaps contrast based upon personal experience will illustrate this point. I was born and reared on the western edge of the Southern highlands. I think I know, as he who knows only by bitter contact, the conditions in the South both before and after the metamorphosis of rural labor into factory labor. Likewise, I think I know the sordid, comfortless lives lived by those from whom Southern mill owners have recruited a large portion of their labor supply.

The farm on which I was reared consisted of 86 decidedly lean acres. We were able to wrest most of our food therefrom, we raised our work horses and milch cows and occasionally we had a few pigs or a calf or two for sale. We produced some surplus poultry and dairy products which we bartered in the most literal sense at country stores for a few manufactured goods. We made little or nothing from the operation of our farm. Our family of seven boys and five girls went barefoot in the fall, even until after the first appearance of ice, and walked three miles to a one-room schoolhouse. I departed from the ways of learning at the age of 11 and did not again have an opportunity to return thereto until I was 18. In so far as social contacts were concerned, we trod on barren ground. The house we lived in was rough frame, boxed rather than weatherboarded.

All this indicates more than enough to show that the semi-highlanders in the South whence I came were certainly not arrayed in purple and fine linen. They certainly did not fare sumptuously every day. What they gave up, or rather what those like them gave up, to enter Southern mills and factories was certainly not a kingdom, nor even the half of a kingdom. The environment from which the bulk of labor

in the South has come is more or less similar. In a multitude of instances, farm tenants were actually driven into the mills in obedience to the law of self-preservation.

Since the Southern laborer gave up little when he forsook the fields and entered the factories, did he exchange bad conditions for worse? Let us see. Suppose we take two extreme examples, the model mill village, and the lowest type of rural mill village, and compare the circumstances under which mill workers live now, with the circumstances under which they originally lived.

In a model cotton mill village, such as Cramerton, N. C., or a model steel mill village such as Fairfield, Ala., are found perhaps the best surroundings which the South's industrialism has to offer. Here, instead of the former laborer from the fields following an uninteresting agricultural occupation without profit, he follows an interesting mill occupation with profit. Instead of sending his children to a one-room rural school, primitively equipped and inefficiently taught, he sends them to a graded school, modernly equipped and efficiently manned for high grade instruction. Instead of attending a rural church with preaching once or twice a month, he attends at more frequent intervals a church with services which would do credit to towns or cities of much larger population. Instead of living in a house not fit in many cases for even animal habitation, he lives in a five or six room cottage provided with modern conveniences sometimes beyond his capacity fully to enjoy. Instead of little or no amusements, as on the farm, he is surrounded with almost every recreational facility which money can buy. Indeed, instead of the worst in rural life, he is afforded the best in the urban life.

In certain of the rural mill villages, on the other hand, the situation is quite different. Here prevail perhaps the worst conditions in the industrial South. Such mill villages grow up, through no one's fault, around a single mill or sometimes two or three mills. The houses, constructed either by private landlords or by the more thrifty type of employe, are cheaply built, unattractive in looks and almost unfit in some instances for human occupancy. The churches and schools are usually poorly equipped in terms of both personnel and physical facilities. Opportunities for recreation are almost wholly lacking. The streets are either not laid out at all or else have come into existence as a result of cow paths or some other equally haphazard method of procedure. Everything, indoors and out, presents a drab and uninviting appearance.

But, even the worst of mill villages affords a better environment generally than that from which a large proportion of Southern labor originally came. While conditions naturally vary widely between the two extremes which I have cited, industrial workers in the South, whether in the Alabama steel mills or in the Carolina cotton mills, are better off in the main than they were before they deserted the farm for the factory.

Just as the machine age in the South has elevated labor, so also has it extended the field of labor. No longer are men and women limited to agricultural pursuits. Many types of employment, unthought of before the days of mills, have made their appearance. Thousands of the unskilled, and especially those whites to whom many trades were closed before the Civil War on account of the hiring out of slaves, have secured opportunities to become skilled and to achieve economic independence. Moreover, many skilled allied industries have come into being, offering still larger opportunities for economic advancement.

The South's industrial progress has enabled hundreds to move out of the laboring class into the property-owning and property-managing class. Any number of mill owners in the South have started from the bottom. Likewise, any number of foremen and superintendents have sprung from the ranks. Many of these men have started with nothing, not even a high-school education. The factory gave them their

supreme chance at the wheel of fortune. Even some of the strongest families in certain sections of the South today are of industrial, rather than agricultural origin.

In addition to elevating labor and bringing economic independence to people otherwise economically dependent, the industrialization of the South has given impetus to other types of achievement worthy of mention. Indirectly, the increased production of industrial wealth in the South has made possible the construction of highways. Certain Southern States have made enviable progress during the past six or eight years in highway construction, but had not the South possessed sufficient basic resources, industrial or otherwise, to finance these highways and bridges, many Southern communities would still be occupying isolated positions in an otherwise advancing world. The industrial wealth of the South has facilitated the building of hotels, perhaps not tourist hotels, but certainly commercial hotels. In constructing roads, the Southern States have not forgotten the travelers who use those roads.

The industrial progress of the South has accelerated educational progress. Almost every State university and denominational college in the Southern States has doubled its student body, its teaching staff and its physical equipment in the past 10 years. The same is true, even to a greater degree, of the public schools. Vast sums of money, both public and private, have been expended in an effort to reduce or eradicate illiteracy. While still larger sums will be necessary before the South can boast of its enlightenment, a start has been made which presages great achievements in the field of learning. Had not the South produced wealth in excess of survival needs, educational efforts would have come to naught.

The industrial growth of the South has been reflected in spiritual growth. In every town and city there is evidence of the Southerner's search for higher values. While statistical proof is lacking, this area probably has not only more churches, but also more church edifices of metropolitan proportions than any other like area in the United States. This record of advancement could not have been made had there not been a corresponding record in the accumulation of wealth.

The new era in the South, then, is largely an era of industrialism. The unparalleled changes which have characterized the Southern States during the past quarter of a century or more are due mainly to the magic force of machine production. The rise of industrialism in the South has blessed the people of the South in a multitude of ways. Its effects in general have been good, not bad; elevating, not degrading; progressive, not retrogressive. In its widest aspects it has lifted the whole Southern people to a higher plane of living, given them a broader outlook on life and endowed them with the means by which ultimately they may be able to achieve a renaissance in art, in literature and in culture undreamed of by the present-day leaders of Southern thought.

Architects for \$1,000,000 School Construction.

Local architects have been engaged for five school projects in Baltimore, to cost about \$1,000,000, for which provision was made in a \$10,000,000 school loan voted last May. Herbert G. Jory will prepare plans for a 16 to 18-room addition for Highlandtown school, to cost \$300,000; Flournoy & Flournoy for 12-room addition to Glenmont school, \$250,000; George Norbury Mackenzie, 3d, for a 12 to 16 room addition to Brehm's Lane school, \$175,000; C. Eugene Adams, 8-room addition to Govans school, \$150,000, and Palmer, Willis & Lambdin, for an addition to the Roland Park school, the number of rooms and cost of construction not having been determined.

Paper Mill Completed at Kansas City.

UNITED STATES GYPSUM COMPANY, WITH FIVE SOUTHERN PLANTS, ADDING STEADILY TO ITS FACILITIES.

By E. M. OREN.

A modern chip-paper manufactory was recently put in operation in North Kansas City, Mo., by the United States Gypsum Company. The new building is of fireproof brick and steel construction; building and ground represent an investment of approximately \$400,000.

The Kansas City paper mill is the fourth to be built by the company. Other mills are at Oakfield, N. Y.; Gypsum, Ohio, and Lancaster, Ohio. Each mill manufactures chip papers

deposit at Plasterco since before the Civil War. In 1867 a mill was erected there for grinding gypsum rock to be used as fertilizer. Subsequently, equipment for manufacturing plaster was installed. In 1908 the plant and gypsum deposit was acquired by the United States Gypsum Company, and in 1912 there was built a modern plaster manufactory to which many additions have since been made. Gypsum board products, as well as gypsum plasters, now are manufactured, and



NEW KANSAS CITY MILL OF UNITED STATES GYPSUM COMPANY.

for the surfacing of the company's board products—Sheet-rock, Sterling and Crown wallboard, Gyplap sheathing and Bundled Rocklath plastering base. Kansas City was selected as the location for the new mill because of its advantageous situation with respect to the procuring of old newspapers from which chip-paper is made, and because it is midway between Fort Dodge, Iowa, and Sweetwater, Texas, where the company has large gypsum manufactories. Virtually the entire output of the Kansas City mill is used in the company's plants at Sweetwater and Fort Dodge.

Normally 75 persons are employed at the Kansas City plant. Several varieties of chip-paper are made: News-lined chip-paper, open-laced chip-paper and a heavy, water-resisting chip-paper. The equipment is of the most modern type; in consequence, it is not unusual for the mill to run for two weeks without interruption to the flow of the finished product, and the only breaks in the paper sheet, as it comes from the machines, are made by the workmen removing finished rolls of paper.

The United States Gypsum Company now operates five Southern plants as follows: Kansas City, Mo.; Sweetwater, Texas; Plasterco, Va.; Southard, Okla., and Eldorado, Okla. The largest of these is at Sweetwater, which supplies products to Texas, Arizona, New Mexico and parts of Oklahoma and Louisiana. The Sweetwater plant was put in operation in 1924, with a daily capacity of 100,000 square feet of wallboard and 400 tons of gypsum plaster. Since 1924 several additions have been made so that it now is one of the largest gypsum manufactories in the world, and each of the company's line of some 40 commodities is either manufactured or stocked at Sweetwater. The Sweetwater operation is said to be the only one in the world that recovers gypsum from the ground by all three of the known methods—mining, quarrying and scraping.

The second largest of the company's Southern plants is at Plasterco, Va.; this furnishes gypsum commodities to the Southeastern States. Rock has been taken from the gypsum

deposit at Plasterco since before the Civil War. In 1867 a mill was erected there for grinding gypsum rock to be used as fertilizer. Subsequently, equipment for manufacturing plaster was installed. In 1908 the plant and gypsum deposit was acquired by the United States Gypsum Company, and in 1912 there was built a modern plaster manufactory to which many additions have since been made. Gypsum board products, as well as gypsum plasters, now are manufactured, and

A particular interest is attached to the mill at Southard, Okla., because of the purity and whiteness of the gypsum rock there obtained. This rock is manufactured into several special plasters, notably molding plaster, dental plaster, orthopedic plaster and Keene's cement—all widely employed for commercial and professional purposes. Molding plaster, however, has found a peculiar use in the movies. In two motion pictures of importance the imposing castles, towers and walls were formed of gypsum molding plaster; and molding plaster continues to be extensively used for the construction of motion picture settings. The Southard property was acquired in 1912 and both gypsum and gypsum tile are now manufactured.

The importance of the Eldorado, Okla., mill is due to the deposit of gypsite, a formation known also as gypsum earth. Gypsite is scraped from the surface of the ground and is made into the "dark plasters" extensively used in the South.

\$31,000,000 Improvements for Southern Pacific.

The Southern Pacific Lines expansion program this year involves the expenditure of about \$31,000,000, according to an announcement by Henry W. de Forest, chairman of the executive committee. On January 1, 1928, improvements under way involved the expenditure of \$11,000,000, and since that time construction projects and the purchase of additional equipment has been authorized, necessitating the expenditure of about \$20,000,000.

Bids on \$400,000 Harbor Bonds Asked.

Freeport, Texas.—Bids will be received April 3 by the Brazos River Harbor Navigation District, Edward C. Tobey, chairman of Navigation and Canal Commissioners, for \$400,000 5½ per cent bonds.

A Thousand Miles of Tennessee.

By RICHARD WOODS EDMONDS.

In two parts—Part 1.

If Marco Polo had told of a city whose inhabitants had drilled a tunnel under a steep and lofty mountain ridge and floored it with a broad, smooth concrete highway in order to travel east from their valley with a maximum of speed and comfort, it would have seemed as great a marvel as any of his other wonders. But anyone motoring east from Chattanooga must pass through such a tunnel. When I set out to explore the eastern part of Tennessee that tunnel was the first interesting feature of the trip. And the second, pounded into my head by the jolting of many a detour before the trip was completed, was the fact that Tennessee is in the throes of a road-building campaign that in another 10 years will net the whole State with a splendid system of broad, well-graded concrete highways. Eleven million dollars out of revenue is the State's annual expenditure for highway construction.

Our first stop was to be the Ocoee No. 1 power plant of the Tennessee Electric Power Company, 18 miles east of the city of Cleveland in the southeastern corner of the State, and our course ran for several miles along the bank of the Ocoee River, a clear, brisk mountain stream with a good fall and a rocky bed; and as we hurried up, it hurried down. "We," I should explain, does not refer to the car and me, but includes J. C. Costello and Charles Chamberlin, Jr., both of the Tennessee Electric Power Company.

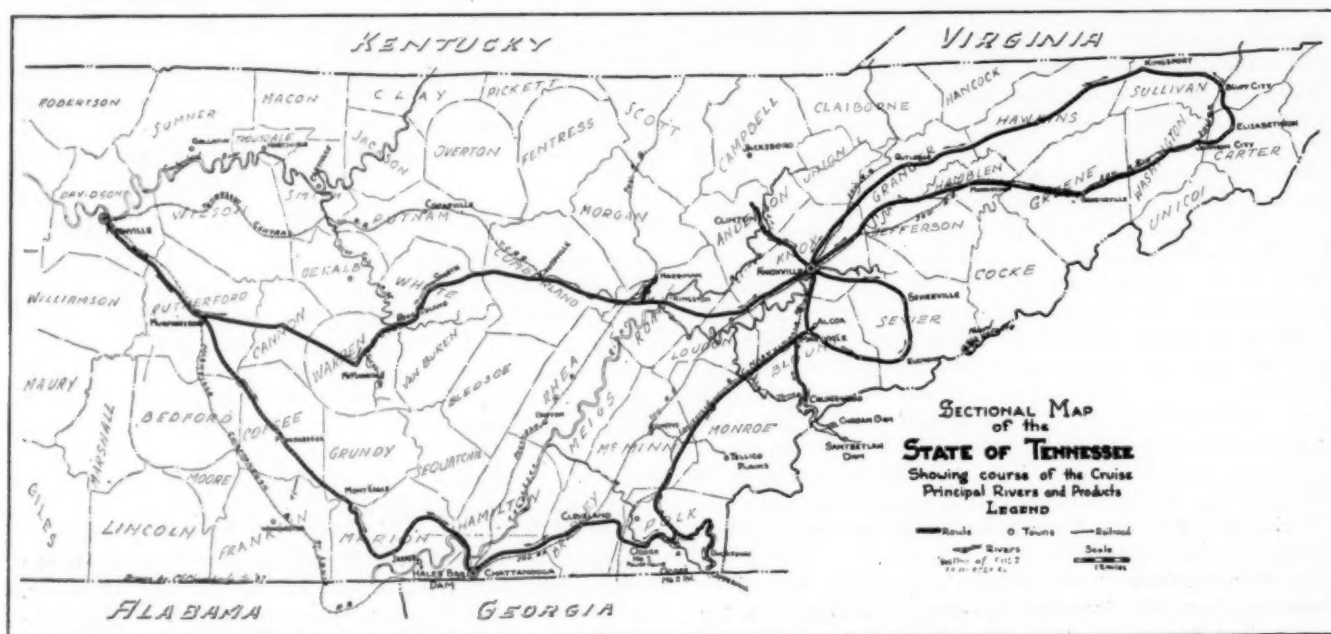
The five water wheels of the power plant drive as many generators, and turn out 30,150 horsepower, with a head of 110 feet. But the intake level is 20 feet below the spillway, allowing for a draw-down in dry seasons of 32,000 acre-feet. Such a storage, by impounding excess flood waters, helps to maintain an even flow of primary power.

Another of the Tennessee Electric Power Company's plants, Ocoee No. 2, lay ahead of us, further up the river, and after a brief inspection of No. 1, we set out for No. 2. The way was smooth enough, but narrow, the river a considerable distance under our right running board and the mountain-top an unseeable distance above our heads. The one car we met

was passed by a peculiar combination of tact, mutual forbearance and skill. After so long a time, we being still in the car and the car still on the road, we came to the stopping place. Here we got out, crossed the river on a swinging suspension bridge, and mounted a dinky little electric car running on an easy-going, carefree sort of track. On this we traveled the rest of the distance to the power-house, Ocoee No. 2. Here we found a plant set on the side of a deep, narrow gorge, nearly five miles from the dam that serves it. Water to turn its wheels travels through a great steel-ribbed wooden flume that skirts the brow of the gorge and finally plunges 254 feet down its side to the water wheels, a head that enables the small flow to generate 24,120 horsepower.

Up a path along the side of the gorge we climbed to the flume, and mounted a little storage-battery car that runs on a track laid on the cross bracing a-top the flume. On that car we traveled for about a mile, winding along the brink of the gorge. The river was low and what there was of it flowed just under our feet in the 11x14-foot flume. Its natural bed, 250 feet below, was dry except for occasional pools.

From Plant No. 2 we doubled back on our tracks to the mouth of Greasy Creek, which enters the Ocoee River from the north, turned up Greasy Creek and came presently to a scenic highway that deserves to be famous. The Kimsey Highway it is called, and in a distance of 25 miles or so from where we struck it to where it swooped down from the mountain tops into the Copper Basin in the extreme southeastern corner of the State, it was a ceaseless snarl of twists and turns and ups and downs. It is well graded, and while not yet concreted, is kept scraped and in good condition. It skirts many a peak, traces the spine of many a hog-back and crosses several divides. In passing over the last of these, Mr. Costello told me, it would bring us out into plain view of one of the strangest sights I had ever gazed upon. From the vast, unbroken stretches of luxuriant forest covering the mountains to their cloud-wreathed summits, we would emerge



suddenly upon the startling contrast of the bare, brown hills of the copper basin, devastated many years ago by the sulphurous fumes given off by the older copper-smelting process. In the early days of the industry the copper ore was "heap roasted"; that is, it was collected in immense piles and the sulphur in the ore set on fire. This method burned out the sulphur and liberated sulphurous oxide, a gas, into the air, where it combined with the atmospheric moisture to form a sulphuric acid vapor. This vapor, settling on the trees and other vegetation of the surrounding hills, killed every trace of vegetable life. The roasting process called for use of large quantities of charcoal, and all the trees were cut up, brought

Creek to an elevation of 3,000 feet at the divide. We began now to descend most of that distance. The Ocoee River flows through the copper basin before it reaches the two power plants we had left behind and a road is now being built along its banks right into Copper Hill, making unnecessary the climb we took over the mountains; but that road is not yet passable. We had climbed over a mountain range, therefore, and were now descending in one long, unbroken grade to within 300 or 400 feet of the elevation at the mouth of Greasy Creek.

Three little towns lie together in the copper basin—Ducktown, Isabella and Copper Hill. They are not commercial



VICTORIA MARBLE QUARRY NEAR KNOXVILLE.

in and charred. Even stumps were grubbed up. Some years ago the two companies operating in the basin installed a process for capturing the destructive fumes and converting them to sulphuric acid, with the result that the by-product became more profitable than the copper. Today the largest sulphuric acid plant in the world is at Copper Hill, devastating fumes are converted into dollars and the vegetation is slowly creeping back over the old scar.

But twilight was falling as we climbed, and by the time we reached the last divide darkness had come and all we could see was the cluster of lights of the town, lying black in a black valley. Night had drawn a merciful veil over what our headlights showed us, as we ran along the valley road, was the desolation of complete destruction. We had climbed from an elevation of 800 or 700 feet at the mouth of Greasy

towns in any sense of the word, but merely the mining and plant towns, or camps, of the two companies operating there. Without the mines they would cease to exist.

Two distinct copper companies operate side by side in the basin. Both have mines at Ducktown. The Ducktown Chemical and Iron Company has its plant at Isabella; the Tennessee Copper Company's plant is at Copper Hill.

In a good year the former will produce 65,000 tons of sulphuric acid, 8,000,000 pounds of copper, 55,000 short tons of iron sinter running about 65 per cent iron, and unspecified quantities of acid sodium sulphate for use in making wood pulp for paper manufacture. The latter has a capacity of 12,000,000 pounds of copper, 65,000 tons of sinter and 375,000 tons of 60-degree sulphuric acid.

Both of these companies use substantially the same process.



Coal Mining in
Tennessee.



Crane
Enamelware
Company's Plant,
Chattanooga.

Below—Signal Mountain Port-
land Cement Company Plant
at Chattanooga.



Highway Scene near Chattanooga.

In each case a part of the ore is sent to the smelter for direct smelting in copper blast furnaces, while a part is put through two flotation processes, the first recovering copper sulphide; the second, iron sulphide. The copper matte from the blast furnaces and copper concentrate from the flotation plant are treated in a basic-lined converter, the resultant copper pig, 99 per cent pure, being shipped to Eastern refineries for final treatment by an electrolytic process. The modern method accomplishes in 12 hours what the old method, with repeated roasting of the mattes, did in four months.

The recovery of iron from the copper ores is a comparatively new development. Two steps are carried out in the copper basin. The first, already mentioned, is the recovery of an iron sulphide by flotation. The second is the conversion of the sulphide to an iron oxide by roasting. The iron oxide, or iron sinter, as it is called, has much of the appearance of soft-coal cinders. It is an iron ore of a pure and readily workable form, and is shipped to iron blast furnaces for reduction to pig iron.

The sulphurous oxide from three processes, the copper blast furnaces, the basic converters and the iron sulphide roasters, is all captured, conducted to the acid plants and converted into sulphuric acid.

The copper deposits of the region were discovered in 1849, and up to July, 1854, the various mines had produced 15,569 tons. At that time the copper was mined by pick and shovel, and sent by muleback, wagon and railroad, and finally by sea to Swansea, Wales, to be refined.

During the Civil War the copper industry of the region became of vital importance to the Southern armies. Smelters had been introduced, and the Basin became one of the great copper-producing regions of the world. But with the exhaustion of the richest ore the profits fell off. The wild and rugged mountain ranges that shut the district in rendered it difficult of access, even the river having had to cut for itself a deep and narrow gorge in order to get out of the valley. In the late seventies the smelters were shut down, and not revived until the construction of the Marietta and North Georgia Railroad made it possible to bring in heavy, modern equipment and coke for smelting. Today the natural advantages of the region have been developed sufficiently to put the industry on a sound basis. The labor situation could scarcely be improved upon; hydro-electric power is cheap and abundant; coke is brought by rail from the nearby Tennessee and West Virginia coal fields; rail shipment has opened the markets of the world to the industry; and while the ore has dropped from 30 per cent to 2 per cent copper, and is mined now at depths of 1000 feet or more, modern methods extract it at low cost and by-products have greatly exceeded the copper in value.

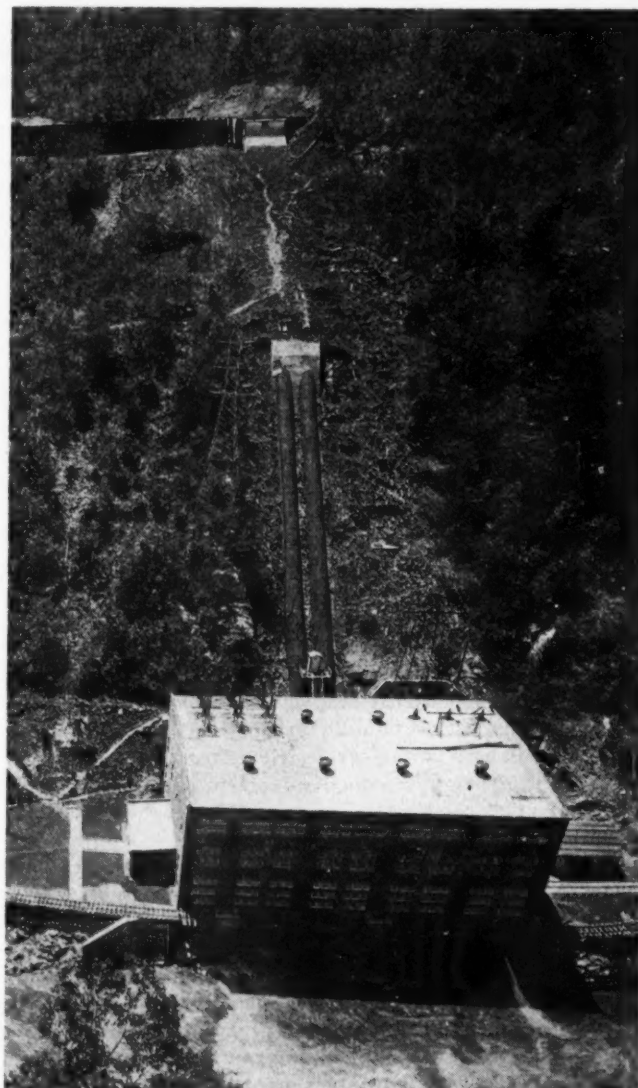
We had arrived at the Copper Basin in the evening; we left it the next day shortly after noon.

With Ducktown behind us, the forest stretched unbroken as far as we could see. Little if any of it is virgin timber, most of it being large second growth, almost ready for another cutting. All of this section is a tremendous reserve of hardwood timber.

That afternoon, instead of leaving the Kimsey Highway where we had entered it the day before at Greasy Creek, we kept on to the northwest, straight—or rather sinuously—over a lofty saddle on Beans Mountain, until we had passed through the national forest, and then turned north and northeast to Maryville. In leaving the National Forest we also left the mountains and skirted their western foot-hills. The land here is rolling, and must have an elevation of 700 or 800 feet. All of this part of Tennessee is pre-eminently the mineral section, and its future is industrial. The fine, rich farm lands of the State lie further west. Throughout that east end of the State nature cached her valuable min-

erals in great variety and abundance against the time of our need. From copper, iron and sulphur in the southeastern corner, throughout a formation that over several hundred square miles is predominantly shale, they are thickly sown.

At Maryville we called at the local office of the Tennessee Electric Power Company, where by pre-arrangement we met W. S. Davis, district manager for North Tennessee, and W. W. Jacobs, of the power company, district manager for East Tennessee. Also we met J. E. Housley of the Aluminum Company of America. That company had very kindly offered to show us through not only their unusual power developments in the mountains just across the line in North Carolina



OCOEE NO. 2 PLANT, TENNESSEE ELECTRIC POWER CO.
Capacity 24,120 horsepower. The end of the five-mile flume shows in the upper left hand corner.

but also through their big aluminum plant at their town, Alcoa (Al. Co. A.) just outside of Maryville. The six of us had supper together and then, in two cars, drove south and east around the end of the Chilhowee mountain range to the Aluminum Company's construction base at Calderwood, where we spent the night. The next morning we set off on the company railway up the gorge to the power plants.

After about five miles along the Little Tennessee and then 15 miles up its tributary, the Cheoah River, we reached the Santeetlah Dam. Two hundred and twelve feet high the massive concrete wall stretches between two solid walls of gray rock. Our visit here was cut short by the necessity for going on to the Tapoco dam and power house, which we had

passed on our way up. It was situated on the Little Tennessee just above the confluence of the Cheoah.

The Tapoco Lake is confined in a gorge so narrow as to have no storage capacity and winds like a broad, tranquil river between steep hills, while in the distance the cloud-wrapped peaks reach skyward. Its shores range from steep to perpendicular. Its waves lap at weathered gray stones into whose crevices twisted little trees have set their sinuous, tenacious roots. As our motorboat rounded its bends the whole jagged landscape seemed to pivot and wheel slowly about the most distant of the smoky, purplish-gray summits.

Hydro-electric plants belong down below dams or in the bottoms of deep gorges, not on the shores of lakes. But actually the Santeelah power house, set on the shore of the Cheoah reservoir, is about 660 feet below the lake upon which it draws, and the water, after traveling 25,000 feet through mountains and across gorges, by way of a great silver pipe line from the Santeelah dam, will plunge down the bluff behind the power house through penstocks to the two water-wheels, where it will grind out 60,000 horsepower. The flow is small, only 800 cubic feet per second, but the momentum of those twin 660-foot columns of water rushing down upon the wheels will be tremendous.

The big aluminum plant that takes the power of these streams and dams is at the company's town of Alcoa, and is simply one unit, just outside of Maryville. The ore is mined in Arkansas, in British Guiana and Dutch Guiana, and shipped to St. Louis, where it is put through a chemical process. The product of the chemical plant, a light grayish powder, is then shipped to the Alcoa plant, where it is heated in electric furnaces. This is where the metallic aluminum first appears, the molten metal being drawn off from these electric furnaces. The furnace room, or pot room as it is called, is not always open to visitors, but we were permitted to go all through it, and to see the new metal pouring in a bright red stream from one of the pots.

As nearly as I could tell, the reason for locating this stage of operation here in Tennessee is cheap power. Abundant, high-grade labor at low wages, available here, is likewise to be had at the mine in Arkansas. But where a plant uses 150,000 horsepower of electric energy it is cheaper to have its own power plants than to buy power. The chemically treated concentrate is therefore shipped 500 miles from St. Louis to the plant at Maryville.

Here at Alcoa the Aluminum Company wants to bring about a general industrial development. A peculiar factor in the situation is the fact that the company can employ only men—physically mature and vigorous men. The result is an unbalanced labor situation. Many women, girls and youths in the families of the company's employees who are anxious to work cannot find employment. A mill, therefore, that could employ women and girls, and youths from 16 or 17 to 21 should find a very advantageous labor situation, and by giving these people employment would tend to stabilize the Aluminum Company's labor supply. Possibly with all of this in view, the company has gone to considerable pains to develop Alcoa into an attractive modern village. As the Aluminum Company's power lines tie in with the 10,000,000 horsepower interconnected system covering a large part of the Southeast, there would be an abundance of power for other industries under all conditions.

The Aluminum Company has always been very close-mouthed about certain points of its operations. It doesn't mind saying that the Alcoa plant will use 150,000 horsepower in its electrolytic process, or that it employs 3000 men, or that its village houses about 5000 people, representing the families of about half its employees. It doesn't mind telling that its raw material comes from Arkansas and other points by way of the chemical plant at St. Louis, and the plate mill at Alcoa is open to visitors who want to see aluminum ingots

rolled into thin sheets; but until recently and possibly even now with only rare exceptions, the pot room has been closed to all visitors. And if you want to run against a blank wall, as I did, just try to find out how much aluminum the company produces at Alcoa, with its 150,000 horsepower and 3000 men.

\$525,000 Hotel to Be Erected at Vicksburg.

Vicksburg, Miss.—K. D. Wells, E. S. Butts and Edgar Levens, of this city, will incorporate a company to build a \$525,000 8-story hotel here to contain 131 rooms, convention hall to seat 300, private dining room, ballroom and other facilities. It will be under the management of E. S. Morey of Monroe, La. H. L. Stevens & Co., Chicago, are the architects and plans will be ready about May 1.

\$300,000 Contract for Race Track Buildings.

Laurel, Md.—The Maryland State Fair Association has awarded contract, at about \$300,000, to Frainie Brothers & Haigley, Baltimore, for the construction of a grandstand and clubhouse at the Laurel race track. The grandstand will seat 10,000. The clubhouse will be one story and basement, with mezzanine. William Higginson, New York, is the architect. The Belmont Iron Works, Philadelphia, have contract for 1800 tons of steel.

\$788,000 Bid on Quantico Barracks.

Quantico, Va.—Murch Brothers Construction Company, St. Louis, has received contract at \$788,000 for constructing three barracks buildings at the marine corps base here, the work to include plain and reinforced concrete, artificial stone, brick and hollow tile, steel and iron, roofing and sheet metal work, metal lathing and plastering, marble and tile, drainage and water systems, steam heating and distributing systems, telephone conduits, lighting and power facilities. The buildings will each be about 350 by 56 feet, three stories.

National Real Estate Men to Meet.

Sessions of the eight individual divisions and three sections of the National Association of Real Estate Boards will be important features of the convention of that organization, to be held at Louisville, Ky., June 19 to 22, inclusive, at the Brown Hotel. Meetings of the directors of the Association and of the board of presidents of State real estate associations will be held on June 18 and a second meeting of the directors will follow the convention.

The regular quarterly meeting of the directors of the National Association is scheduled for April 20 and 21, at the Drake Hotel, Chicago, and the executive committees of several divisions will meet on April 18.

Great Growth of the Ice Industry.

Disclosure that the ice industry has risen to ninth place in the list of American industries was made recently by Leslie C. Smith, executive secretary of the National Association of Ice Industries, who spoke also of its influence in the development of such sections as the Arkansas fruit belt and the Rio Grande Valley in Texas. Over \$960,000,000 is said to be invested in the ice industry. Per capita consumption of ice, Mr. Smith says, has increased from 206 pounds in 1904 to 1054 pounds in 1927, while in that period the transportation of perishable products rose from 82,000 carloads a year to 1,187,000 carloads. The 1851 companies enrolled in the National Association are said to manufacture 85 per cent of the ice produced in the United States.

Racial Differences Are of Divine Origin.

By GEORGE GARNER.

Of the various comments I have seen from colored persons on my article of last December, showing the evils, to both white and negro races, of the mistaken treatment of the negro by the people of the North, only one was bitter or intemperate in language. The recent comment by P. B. Young, editor of the *Journal and Guide*, Norfolk, Va., published in the *MANUFACTURERS RECORD*, speaks for itself and largely for other intelligent colored commentators. All of which moves one to more profound and thoughtful study.

Races and nations are merely aggregations of individuals; hence the individual equation first must be considered. On the divine side of man, the Souls of all men are equal in value in the sight of God. On the human side, no such equality prevails on earth. Some men are born to high estate and power; others, to humble conditions. Some are born brilliant in intellect; others, in mental dullness. Almost no two men are born in equal standing in life, or in mental, physical or, possibly, moral equipment. So, too, with races, which, to repeat, simply are aggregations of individuals.

Indeed, this difference between races was recognized by God Himself, as when He picked the Jewish nation as His chosen people, "to be a peculiar people unto himself," and even forbade them to intermarry with other peoples, as in the seventh chapter of Deuteronomy. Disobedience to God wrought the earthly downfall of Israel, as it will to every race or nation which may defy Him or disregard His law.

So it is that the white race is superior to the black and red and yellow races. Whether this difference prevailed at the outset, or developed in the progress of time and civilization, may be open to question; but the fact remains that such is the actual case in these days—has been the case for centuries in the past, and at present promises to continue into an indefinite future.

But strong factors in this situation are the opportunities open to the lesser races to improve their condition and to elevate themselves, and the obligation to utilize those opportunities, and the responsibility of the white race to the other races, as their superior, to act to them as "guide, philosopher and friend."

Such relationship of the white race to the other races, however, by no means contemplates that it shall accept them as racial equals, any more than, within the white race, the master accepts the servant as a social equal. Such acceptance of racial equality, indeed, would prove disastrous, as relieving the lesser nations of the discipline necessary to their improvement and as tending to drag the superior race down to the lower level. Patience and discipline are prime requisites for the development of the lesser races, and also must be cultivated by the white race in its guidance of and relation to the others, just as patience and discipline must be practiced by both a child and the teacher who instructs it. The lesser races must be patient under their inferiority to the white race, and the white race must be patient in its treatment of the lesser races—not impetuous in altruism, but discriminating and reasonable.

Without, perhaps, going into these profound considerations, the people of the South, nevertheless, act in accord with the conclusion, and so, indeed, do also the negroes in the South. Both recognize, almost instinctively, the racial inequality, just as members of each race on earth recognize individual inequalities within itself. The people of the South decline to accept the negro as a racial, and therefore social, equal; but, they do strive, through kindness and patience and the provision of tremendous educational and other advantages, to help him "rise on stepping stones of his dead self to higher things." The result is shown in the respective racial condi-

tions and the inter-racial relationship—all for the best. Harmony prevails. The negro presses onward and upward and his race produces such men as Prof. George W. Carver of Tuskegee Institute and Editor Young of Norfolk. The white race retains its purity unsullied and so continues best fitted to guide and help the inferior, struggling race. Each race works on the line as defined in the Episcopal Catechism, "To do my duty in that state of life into which it shall please God to call me."

On the other hand, in ignorance and thoughtlessness—mayhap, in the sentimentalism of "liberalism," or "tolerance" or mistaken kindness—the people of the North pamper and pet the negro, as foolish persons spoil their children by making too much of them and permitting them to intrude into family activities at an hour when they should be in bed. As Mr. Huckins of Jacksonville has pointed out, even though the white people of the North pamper and coddle the negro, they have at the same time an instinctive racial aversion to intimate or even close personal association with him—except among white "moron" frequenters of black and tan cabarets. Fraternization between the white and negro races works unspeakable evil to both races as a whole and especially to the individuals involved in such fraternization.

Naturally, it is not pleasant to any member of any of the inferior races, be it black or yellow or red, to accept such inferiority; but that condition actually prevails and must be faced and accepted. After all, membership in any particular race may seem to be incidental, or even accidental. The human mind cannot fathom, for instance, why Dr. Carver and Editor Young were born in the black race and Mr. Huckins and myself in the white, instead of vice versa; but, such is the fact, and each of the four must face it.

Nor should the white race take undue advantage of its superiority and bulldoze or mistreat the lesser races. For the good of all the world, it must recognize and maintain its superiority, but at the same time it must do so with reason and with the true welfare of both races in mind—just as the people of the South do in their relationship with the colored race.

Alabama Industries Help the Farmers.

Birmingham, Ala., March 24—[Special.]—Only a few years ago, at the instance of George Gordon Crawford, president of the Tennessee Coal, Iron and Railroad Company, a movement was started to stimulate the use of Alabama farm products by the great industries of the State. Buy Alabama products, was the policy put into practice. So successful has the movement proved that Dr. M. F. Jackson, in charge of the movement for the Tennessee corporation, reports that the supply now does not equal the demand. Hay, Johnson grass, eggs, butter, milk, canned goods, etc., turkeys and fowl in general, from Alabama sources, find an immediate market. Cheese factories have been prospecting in this section and more canning factories are expected in the early future. Virtually all the industrial companies are taking the Alabama products for their stores and the requirements are exceedingly heavy.

\$1,000,000 Masonic Temple for Baltimore.

The Scottish Rite Holding Company, J. Edward Richardson, president, Baltimore, has selected Clyde N. and Nelson Friz, Baltimore, as architects, and John Russell Pope, New York, as consulting architect, for a \$1,000,000 temple in Baltimore.

Activities at Lake Charles.

EXPENDING \$500,000 ON ADDITIONAL PORT FACILITIES—\$400,000 NATIONAL BANK AND A NEW CHURCH BUILDING UNDER WAY.

[Special Correspondence Manufacturers Record.]

Lake Charles, La., March 24.

At an expenditure of \$500,000 for additional units of wharves, sheds and other terminal facilities, construction is now under way here to provide for the steadily expanding shipping of this port since the first vessel docked in November, 1926. Within six months after the first dock facilities were completed they were found to be inadequate, and this second \$500,000 was voted. Contract for the construction of



WHARF UNIT NO. 2 UNDER CONSTRUCTION.

the wharf proper and the reinforced concrete fire wall separating Unit No. 1 and Unit No. 2, was awarded to Doullut & Ewin, Inc., contractors of New Orleans and Mobile. The wharf is 744 feet long by 180 feet wide.

In January of this year contract was awarded to P. Olivier & Son, Lake Charles, at \$105,000, for the construction of three steel wharf sheds, the largest 140x744 feet; the second 70x440 feet; the third 70x300 feet. Wharf Unit No. 2 should be completed by July 1. The covered shed area will total around 200,000 square feet.

Construction of the terminal facilities has been under the supervision of Elmer E. Shutts, engineer for the Lake Charles Harbor & Terminal District. Track work and railway construction has been done by the Dock Board with its own forces. The board purchased one mile of frontage on the Calcasieu River, built a 2½-mile terminal railway to the property, and about an equal mileage in storage tracks, sidings and switches on the property. The business of the port

is handled by a board of commissioners, with Guy Beatty as president.

In addition to contracts already mentioned, the following contractors have worked on the terminal construction and the following supplies have been furnished or will be provided: Banta-Mutersbaugh, Inc., Lake Charles, Wharf Unit No. 1; Knapp & East, Lake Charles, Sheds No. 1 and No. 2; Pittsburgh-Des Moines Steel Company, Pittsburgh, Pa., 50,000-gallon steel tank; L. S. Valley & Company, Inc., New Orleans, fire pumps; Layne-Louisiana Company, Lake Charles, deep well and pump; United Dredging Company, New Orleans, turning basin and hydraulic fill; Fred Lock, Lake Charles, railroad embankment; creosoted material for Wharf No. 1 by Long Bell Lumber Company, Lake Charles;



\$400,000 CALCASIEU NATIONAL BANK BUILDING TO BE ERECTED.

untreated timber by Industrial Lumber Company, Elizabeth; structural steel sheds, fabricated by Houston Structural Steel Company, Houston; Johns-Manville roofing furnished by Krause & Managan Lumber Company, Lake Charles; creosoted timber by Gulf States Creosoting Company, New Orleans; untreated timber by Powell Lumber Company, Lake Charles; hardware by Murray-Brooks Hardware Company, Ltd., of Lake Charles; lumber and roofing to be fur-



LOOKING WEST FROM FIRE WALL WHICH SEPARATES UNIT NO. 1 FROM UNIT NO. 2.

nished by Louisiana Western Lumber Company, Inc., Lake Charles; structural steel to be furnished and fabricated by Orange Car and Steel Company, Orange, Texas.

Other construction under way in Lake Charles at present includes the new \$108,000 First Methodist Episcopal Church, South, contract for which was awarded to P. Olivier & Son. The architects are Asmus, Clark & McCook, of Lake Charles and Nashville, Tenn. The Louisiana Western Lum-



NEW BUILDING UNDER WAY FOR FIRST METHODIST EPISCOPAL CHURCH.

ber Company is furnishing building material; plumbing, heating and electrical work is being handled by the Craft-Rushworth, Ltd., Lake Charles. The building exterior will be of face brick with Indiana limestone trim; the architecture, Tudor Gothic. The main auditorium will seat 800, and the educational assembly rooms 850.

The Calcasieu National Bank has recently awarded contract for a structure to cost, with equipment, around \$400,000, the building to be completed by October 1 next. Favrot and Livaudais, Ltd., of New Orleans, are the architects. The structure will be erected at the corner of Pujo and Ryan streets, dimensions 95x157 feet. Both front and side exterior will be of Indiana limestone in Italian Renaissance of a modified style. Vault doors and equipment will be provided by the Mosler Safe Company, Hamilton, Ohio. The burglar-alarm system is by O. B. McClintock Company, Minneapolis, Minn.

Plans are being prepared by Joseph Finger of Houston, Texas, for a \$600,000 hotel, promoted by H. T. McClain and W. P. Weber, Lake Charles capitalists, who will organize a company to take it over. It will be 10 stories, steel and reinforced concrete, and will be operated by the Daley-Moffatt Company, Houston. Harold M. Sanford, Houston, is the engineer.

\$67,000,000 Expended in 1927 by Gulf Oil Corporation for Improvements.

New investment in plant improvement and properties by the Gulf Oil Corporation in 1927 was \$67,000,000, according to an announcement by W. L. Mellon, president. Expansion of properties consisted chiefly of additional leaseholds, increased storage facilities, new pipe lines, including one to West Texas and connection with the Panhandle, completing refineries and expanding its tanker fleet, bulk and retail distributing stations.

Three College Buildings to Cost \$550,000.

Atlanta, Ga.—A \$125,000 power plant, plans for which are now being prepared, will be the next unit in the building program of Agnes Scott College. A \$300,000 administration building and \$125,000 chapel will follow.

The St. Louis, Brownsville and Mexico Railroad recently filed application to extend its South Texas lines a total of 34 miles.

TO MANUFACTURE GYPSUM BLOCK AND PLASTER.

Installing Machinery at Tampa to Utilize 500 Tons of By-Product Material Daily.

The U. S. Phosphoric Products Corporation, Tampa, Fla., plans the installation of a plant for the manufacture of gypsum plaster and gypsum block. The company has available for the purpose a large supply of raw material, derived as a by-product from the manufacture of triple superphosphate, a fertilizer material. Extensive tests have been carried out on this synthetic gypsum by-product, and the company claims that, owing to certain combined constituents, it has been found to have in many respects superior advantages for the manufacture of gypsum blocks and plaster. Due to the cheap source of raw material the company plans to set a comparatively low price for gypsum blocks and thereby hopes to popularize their use in the non-bearing partitions of ordinary frame structures. The use of these blocks has heretofore been confined principally to large buildings of semi-fireproof or fireproof construction.

The present daily capacity of synthetic gypsum at the Tampa plant is about 500 tons, and this quantity will be increased with the growth of the principal business of the company, which expects to distribute the block and plaster not only in Florida but in adjacent States.

The U. S. Phosphoric Products Corporation is a subsidiary of the Tennessee Copper and Chemical Corporation, New York, which took over the Tampa plant of the U. S. Export Chemical Company about a year ago.

Southern Railway Report for 1927.

Sound conditions, both in financial lines and in physical shape and prospects for the future, are indicated in the thirty-fourth annual report of the Southern Railway Company, for the year ended December 31, last. While the net balance was \$18,699,908, as against \$20,596,722 for the previous year, the investments in land, railroad tracks, terminal facilities, shops, locomotives, freight and passenger cars and other fixed property were \$531,471,776, or \$8,600,000 greater than at the close of the previous year.

With a decrease of \$7,828,913 in gross revenue, to \$147,639,062, the expense account was so controlled that the comparative loss in net was limited to \$2,763,720, the net loss being 35.3 per cent of the loss in gross. The net revenue was \$32,765,062. The earnings per share of common stock were equivalent to \$14.40, as compared with \$15.87 in 1926.

While the ton miles of freight dropped 5.99 per cent from the previous year, the figures showed an increase of 6.11 per cent over the average of the three years, 1923-25, inclusive, and while the dollar revenue from freight traffic declined 3.05 per cent from 1926, it was 5.11 per cent above the average for the three-year period mentioned. In passenger traffic, local business has declined, but long distance business has improved, says the report. For 1927 the number of passenger miles was 788,884,193, and the revenue per passenger train mile was \$2.24, compared with an average of \$1.50 for the three years, 1915-17, inclusive. The balance of income over fixed charges in 1927 was \$21,699,908.

The movement of all passenger and high train density lines is now controlled by automatic devices, as well as by electric block signals, and numerous other improvements were accomplished. A total of 260 miles of new 100-pound rail was laid, replacing the 85-pound rail, and 43 new locomotives, 5450 new freight cars and 25 new passenger train cars have been contracted for. Two hundred and eighty-two new manufacturing industries were established on the lines and 264 additional plants were enlarged.

Locating the Milk Plant.

By W. E. GUEST, Douthitt Engineering Company, Chicago, Ill.

While conservatism is guiding the investment and building of new plants by manufacturers of dairy products, the enthusiastic optimism expressed by civic organizations desiring such plants is not always based on justifiable local conditions. The prosperity of communities where plants are located has caused widespread Southern interest and desire of other communities, less fortunate, to take steps to get similar plants; also, local civic organizations, writing to manufacturers of dairy products, often give inadequate information on local conditions.

Where conditions have justified operation of these plants, they represent a payroll in the plant and to the farmers for milk of from \$1,000,000 to \$3,000,000 annually, and support more than double that value in livestock and equipment. The plant represents an investment in building and equipment of \$200,000 to \$500,000. What is it worth to a city to get such a plant?

Careful analysis of the necessary conditions for successful operation are given by the companies in locating the plant:

The first of these is Milk. The milk must be produced from healthy cows, t. b. tested and free, in order that the finished products can go through health requirements of big city markets. It must be produced under sanitary conditions, meeting bacteria count requirements and cleanliness. A sufficient amount must be assured to start operations profitably. Figuring one cow per five people for local milk consumption, and an average of 450 pounds of milk per month per cow, would require 2000 cows pledged to the plant over the amount required for the local requirements, if the plant is to start with 30,000 pounds of milk per day.

An accurate survey should be made, summarizing the following data: (1) Milk cows two years old or older; (2) helpers under two years old; (3) predominating breed; (4) number of farmers reporting; (5) number of cows at 5, 10, 15 and 20 mile radius; (6) present disposal of milk or cream and to what markets; (7) prices and volume of shipments by farmers by months for the past 12 months.

The second factor is Roads. The milk must be delivered sweet and fresh every day in the year and roads must be satisfactory for trucks to do this. Unless there are roads paved or graveled in at least four directions from town for at least 15, and preferably 20, miles, such a plant is absolutely out of the question. A road map should be made for a distance of 30 miles, showing sizes of towns, condition of roads and proposed new roads.

The third factor is Water. There must be water on the farm, cool and free from contamination, both for the cows and for cooling the milk—in adequate quantities. There must be an unlimited supply in the town, chemically free for boiler use, and cooling and clean-up purposes, that will not contaminate the products. Analysis of city water, its outlet, temperature, cost and source, is important, and also the same data for farms should be given.

The fourth factor is Finance. Statistics are needed on the number of banks in the trade territory, their deposits and capital, and the value of products, farm and others produced annually.

The fifth factor is Crops. This should give the following data: (1) The amount of land in the territory untiltable; (2) amount of pasture; (3) amount of land under cultivation, with average size of farms; (4) tons, bushels or other measure of various grains, legumes, hay and other crops produced annually.

The sixth factor is Transportation. This involves railroads

serving a community, with distances to nearest cities and freight rates.

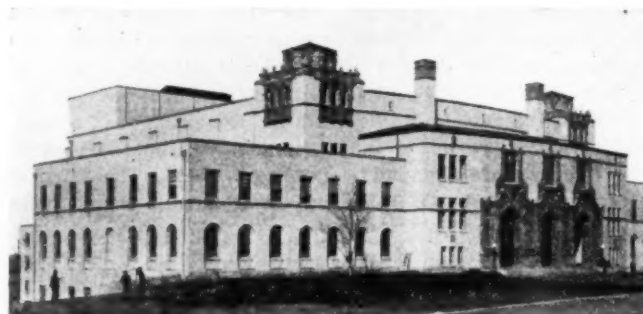
The seventh is Fuel and Electricity. This means the power used is steam and electricity. Give the electric schedule for both power and lighting; also, the cost of coal, oil or gas, its B. T. U. rating, and the type and cost usually used in boilers in the vicinity.

Other general data should be included, such as (1) Annual rainfall by months; (2) average temperatures and weather conditions by months; (3) sewage facilities where plant would be located; (4) location of site on railroad siding and probable value; (5) statistical data showing development of dairy growth over a period of years; (6) community and farmer interest expressed in quoted opinions of leading bankers, merchants and farmers; (7) local dairy organizations and county or State facilities for helping dairy development; (8) general description of city; (9) make report letter size, 8½ by 11, and bind it in a folder with a title on the outside, such as "Report of Dairy Conditions" of the city or town.

This report represents much organized work, but it is the enterprising community, showing this expression of progressive business, that attracts attention first, and is given first consideration by the companies to whom it is presented.

\$500,000 Municipal Auditorium at Wichita Falls.

Wichita Falls, Texas, has recently completed a \$500,000 memorial auditorium which houses the offices of city officials and departments, welfare agencies, patriotic organizations and a large municipal market. It has a seating capacity of 4,000, with good acoustics. The building is of Mediterranean



THE NEW AUDITORIUM.

architecture, 224 by 221 feet, two stories and part basement, with concrete and steel frame and cream-colored brick exterior. A spacious loggia provides an approach to the auditorium and there are two foyers of a size to accommodate 2,000 people. The stage measures 120 feet across and has a depth of 40 feet, with a 60-foot proscenium arch. Voelcker & Dixon of Wichita Falls and Lang & Witchell of Dallas are the architects, while Joseph E. Morgan of El Paso is the general contractor. Contract for heating, plumbing and ventilating was awarded to the Hamilton Company and for electric wiring to J. M. Johnson, both of Dallas.

Wardman Plans Dwellings and Office Building.

Washington, D. C.—The Wardman Construction Company plans to erect dwellings in groups of five and seven in the square bounded by Sheridan, Rittenhouse, Thirteenth and Fourteenth streets, northwest, as an architectural experiment, upon which may depend a later proposal for a similar development in six or seven other blocks in that vicinity. The Zoning Commission is considering this proposal and also an application from the Wardman Company to raise the height restriction from 90 to 110 feet on first commercial property on the south side of L street, northwest, between 18th street and Connecticut avenue, where the company plans to build an office structure.

Selling Live Cattle by Mail-Order Method.

By J. R. MASTERSON, Abilene, Texas.

Undoubtedly unique among the business enterprises of the United States and, maybe, of all the world is a cattle ranch in Texas, with headquarters at Stamford, which sells live cattle by mail-order only—a "mail-order house," which sells beef on the hoof by thousands, just as some concerns sell clothing and other goods through the mail-order system.

Known as the S. M. S., named for the late S. M. Swenson, its founder, this ranch annually markets from 8000 to 10,000 "feeders" to purchasers in almost every State in the Union. Indeed, a draft often is mailed to the ranch headquarters before the cattle are ready for shipment, and in the recent season more than 8000 "feeders" went North which had been paid for before the shipments were made, and which were not inspected by the purchasers till they reached their various destinations.

Since the ranch was established in 1882, its success in the breeding and marketing of feeder cattle has been continuous. "Since the ranch was stocked," A. J. Swenson now states, "approximately 250,000 head of 'feeder' cattle and breeding animals have been sold through the mail-order method."

Furthermore, so firmly established is this business and so firmly is its standard maintained that Swenson animals market for \$10 a head more than do the average of feeder stock that are offered for sale. No longer is it found necessary to advertise Swenson to any great extent and it is said that the advertising bill runs to only about \$3000 a year, most of which is in the form of premium money to feeders who purchase S. M. S. cattle and later win prizes with them in the show ring.

In discussing the success of this unique mail-order business, A. J. Swenson, superintendent of the enterprise, recently said:

"In offering cattle to mail-order buyers, through correspondence, we understate rather than exaggerate the quality of the animals. We try to happily surprise the purchaser when the shipment arrives. We could not have maintained a business of this character over a period of 47 years unless integrity had been strictly adhered to. The 'repeaters'—that is, a repetition of orders by the same feeders—have been continuous. A feeder will sometimes purchase a poorer quality of animals from breeders who do not claim to offer the best individuals, as an experiment, but the cheaper grades are not found as satisfactory, and our old customers then become permanent 'repeaters.' The number of 'repeaters' will eventually test the merits of the cattle of a breeder. Each fall we are sure of orders from purchasers to whom we have made shipments through a span of unbroken years.

"Like any other great business institution, we satisfy our customers. It has so happened that in transit an individual was injured or bruised, and did not put on the flesh that the feeder should ordinarily expect. Without hesitancy, we either mailed the customer a check or sent an extra animal in the next car shipment. An institution that has an annual business of approximately \$500,000 cannot afford to create dissatisfied customers.

"I attribute the prosperity of our business to the efficiency of its operation, to the superior quality of the animals that have been produced from the cross of three blood strains, and to the reputation of the establishment over the States."

Then, after a moment, he added: "I must add, too, the loyalty of the cow punchers, some of whom have followed the lone, drizzily trail until their hair is white."

As a sideline the S. M. S. Ranch also has done much to develop the section in which it is situated, as thus explained by Mr. Swenson:

"While we are not engaged in the realty business, as the country was settled about us, we found it practicable to make a disposition of a part of our land. Perhaps I can best illustrate the policy of the firm by referring to our transactions with land buyers. Since the ranch was established we have sold 75,000 acres of land on time payments to home builders, in tracts of 160 acres each, and we never have had

a foreclosure sale. In some instances, when misfortune overtook one of our purchasers, we carried over the notes, year after year, through a period of 10 years. In a few instances home purchasers became discouraged and wanted to return to their old home grounds, but we adjusted such claims satisfactorily, returning the cash that the buyer had paid, and remunerating him for the improvements that he had made."

Partly through purchases of lands acquired by "squatters" in the vicinity of the Swenson Ranch headquarters and by other purchases, S. M. Swenson eventually obtained ownership of all lands except one section, the owner of which refused to sell. By 1881 he had acquired large tracts of land in 20 different counties, comprising 200,000 acres, most of which lay in the section where the Swenson cattle interests headquarters were established. The taxes on this vast territory became a burden to the owner, and in 1882 he conceived the idea of stocking the ground with cattle, not that he was especially interested in live stock, but in order that the land might be made self-supporting, paying on the investment an amount equal to the taxation. Doubtless, this far-seeing business pioneer appreciated the intrinsic worth of Texas lands, and was ambitious to retain the ownership of the entire 320 sections until further developments might come.

So, herds of native cattle were purchased and driven on the domain of the buffalo and the playground of the antelope and deer, and the first cowpunchers sang their weird medleys to the Texas Longhorn breed. Then, believing that a highly bred type of animal would give a larger return on the investment, Mr. Swenson soon considered the advisability of stocking the range with thoroughbreds, and the first pure breeds were imported to the ranch from Indiana. A small herd of cows was purchased that were a cross between the Hereford blood and the Shorthorn strain, but which had none of the Longhorn mixture. Then a few registered Hereford bulls were secured to head the first highly bred herd of West Texas cattle, and this was the initial step of the tremendous change that was to occur in the cattle industry over the entire Southwest. And then Mr. Swenson began a process of selection and segregation that was to continue through a period of 48 years, and is in progress at the present time.

On the S. M. S. Ranch today are approximately 30,000 breeding animals and, according to the present Mr. Swenson, "if a test could be made of their blood strains, the average individual would analyze, perhaps, 90 per cent Hereford, between 9 and 10 per cent Shorthorn, and less than 1 per cent Longhorn blood." No effort is being made to eliminate the trace of the primitive breed; even that low degree of native shade seems to infuse a greater vigor and vitality into the constitution of the animals. Each year a sufficient number of Shorthorn bulls are placed on the range to maintain the 9 or 10 per cent Shorthorn strain in the offspring of the herd. This triple cross-breeding has produced a superior sort of hybrids that possess the stamina of the natives, the early maturity and capacity to fatten young that characterize the Shorthorns, and the prolificacy and range endurance of the Herefords.

There are now on the S. M. S. Ranch, carefully segregated, 800 head of registered animals; the critical eye of the superintendent selects the best individuals from the offspring of these thoroughbreds annually, and they are sent to the range to maintain the S. M. S. standard and to take the place of the breeding stock that pass the age of usefulness. Only females between 4 and 10 years are retained as breeding dams, because, according to Mr. Swenson, this is the span of a cow's most vigorous period. One animal is pastured over 14 acres, never overstocking the range, in order that

ample grass may be provided to hasten the maturity and develop the individuality of the calves.

When the season for selling begins, 12 per cent of the young stock are shipped directly to the slaughtering pen and are not offered to buyers, and 30 per cent of the remaining number are critically selected and are either kept on the ranch for restocking the range, or sold to other high-class breeders who are seeking better individuals. Approximately 60 per cent of the marketable animals are sold to Northern and Middle Western "feeders." In the corn belt region there are many "stocker feeders" who buy young heaves in car lots and feed them concentrates heavily for a period of from 60 to 90 days, marketing them in a finished condition and topping the market with a fine quality of meat. Mr. Swenson states that "the primary goal of the S. M. S. Ranch is to develop individuals that will put on the maximum amount of flesh in the minimum period of time, and the S. M. S. Ranch ideal is to produce the topmost type for fine and quick finish."

The S. M. S. Ranch has attained success in its clearly defined purpose. Its cattle have won three world records: For selling at the highest price that ever was paid for a car of show cattle; for dressing the largest per cent of meat to the carcass in car lots, and for selling at the highest price that ever was paid for cattle in car lots in open market. Over a series of years the S. M. S. Ranch cattle have been awarded the first prize at the Chicago International Fat Stock Show.

South Continues to Increase Its Cotton Consumption.

For the seven months ending February, 4,199,195 bales of cotton were consumed in the United States, an increase of 180,524 bales as compared with the corresponding period of the previous cotton year. This gain in consumption was made wholly by the mills of the cotton-growing States, for those outside of the South showed a decrease.

Consumption of cotton continues to increase in the South. This section is now using over 74 per cent of all the cotton used in all American mills. The cotton-growing States for the seven months ending February used 3,119,447 bales, or an increase of 216,961 bales, while New England, with a consumption of 900,006 bales, used 32,769 bales less in its mills and the other States consumed 179,742 bales, which was a decrease of 3670 bales compared with the previous seven months period.

During February 31,687,012 active spindles were reported, as compared with 32,873,280 for February, 1927. The number of active spindles in the cotton-growing States during February was 17,843,812—56 per cent of the country's total—which was a gain of 297,740. At the same time New England reported 12,414,904 active spindles, or a decline of 1,411,772 active spindles, as compared with February, 1927.

Even more striking is the greater activity of Southern cotton spindles than those of the rest of the country, as shown by the spindle-hour operating time of Southern mills during February; this amounted to 5,352,091,747 hours, with an average operating time per spindle in place during the month of 290 hours, as compared with 2,347,009,847 spindle-hour operation for New England mills, or an average of 146 hours per spindle in place. The total operating time in all the mills of the country during February was 7,968,862,624 hours, or an average per spindle in place of 220 hours. During February the active spindle-hours of Southern mills was 67 per cent of the country's total.

Exports of cotton for the seven months ending February amounted to 5,230,951 bales, as compared with 7,699,519 bales exported during the corresponding period of 1927.

Predicts Recovery of Louisiana Sugar Industry Will Add \$80,000,000 to New Orleans Business Assets.

New Orleans, March 24—[Special.]—Forecasting the complete recovery of the Louisiana sugar industry within the next year or so and its development into an \$80,000,000 business asset to New Orleans, stressing in addition the various other opportunities of the soil and man-made advantages gained by New Orleans and its surrounding regions in the past few years, Meyer Eiseman, local realtor, recently urged delegates to the Members' Council to "inventory" the stock of New Orleans and endeavor to realize what real progress has been accomplished here.

Formerly the sugar industry poured immense wealth into the city, but this sank to low mark a year or two ago. But its rejuvenation is in sight, he said, due to the enterprise and efforts of the Celotex interests, which have found use for a residue of the cane in the manufacture of its product and have come to the section where their raw product is easily available, taking steps to build the industry back up to its former standard. Within the next 18 months New Orleans should see the sugar industry again in its normal state. Also, factories will come to use sugar cane by-products not needed by Celotex, for the manufacturing of sizing for the stiffening of paper.

In agricultural advantage, strawberries and the rise of the orange industry through organized reform are other factors to be considered thoroughly. Natural gas is another big factor. Louisiana has an abundant supply of this fuel and it may be provided to New Orleans.

Mr. Eiseman also pointed out improvements in the way of highway bridges and roads, demonstrating his statement with the examples of the Pontchartrain and Bay of St. Louis bridges recently opened and permitting, through reduction of distance and inconvenient ferries, a two-and-a-half-hour connection with the Gulf Coast by automobile, where seven hours was formerly needed. He asked, however, that further paving and other improvements be made to some parts of these roads.

The dairying and peach industries of this section are important economic opportunities. The soil is also particularly suited to flower growing. Complete eradication of the tick, so that the dairy industry might thrive, was strongly advocated. Oyster fishing is another big advantage.

Manufactures Exports Keep Pace With Production.

The substantial and continuing growth of American export trade in manufactured goods is revealed in a trade bulletin issued by the Commerce Department. Last year shipments of such merchandise to foreign markets reached a value of more than \$2,000,000,000, or two and a half times as much as in 1914 and six times that at the beginning of the present century. Even with liberal allowances for price changes in that time, these figures still represent a heavy increase in volume. In 1927 finished manufactures accounted for about 42 per cent of total American exports, as compared with 24 per cent in 1900, 29 per cent in 1910, 34 per cent in 1922 and 38 per cent in 1925.

This steady advance of American manufactured products in foreign markets is said not to have been accomplished at the expense of competing countries, but to be rather the result of the enormous expansion of domestic industries and of the improved buying power of the overseas markets. "The important fact regarding export trade as shown by the figures is that it varies little from year to year in its relation to our production," the bulletin says.

Developments in Pumping Sewage.

By M. B. MacNEILLE, Manager, Pump Division, Fairbanks, Morse & Co.

The pumping of unscreened sewage has always been one of the most difficult of pumping problems, due to the presence of solids and material of fibrous or stringy character. Heretofore, it has been common practice to use open-impeller centrifugal pumps in situations where the handling of fluids containing appreciable amounts of solid material was involved, but the disadvantage in this process is that wedging of large masses of solids between the impeller blades necessitates shutting the pump down at frequent intervals and opening it for cleaning; furthermore, the process of grinding the foreign matter against the side plates of the pump causes

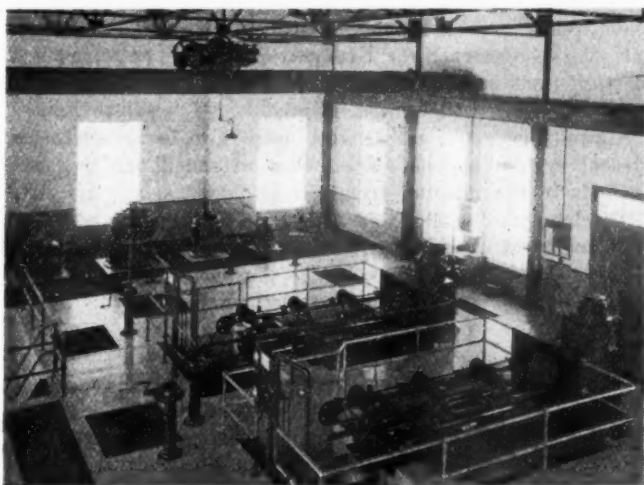
provision is made for revolving the volute to the desired position before bolting it to the pedestal or body of the pump.

The pump has a wide water passage and a blade that is rounded where the water flow first enters the impeller, the blade preventing tenacious trash from catching and also permitting a maximum area of the throat for any given size of impeller. A steep characteristic curve is of vital importance in sewage work, in that the extra pressure available with the rising curve will produce a flushing action in the lines which tends to keep them clear. It also represents an internal effect which keeps the impeller itself from clogging.

The pumping of raw, unscreened sewage in many cases simplifies the layout of treatment plants, outfall pumping plants and relift stations. An example of simplification which is possible is shown by the new treatment plant at St. Petersburg, Fla., which was originally laid out along the generally accepted lines as to what constitutes good screening plan design. This plant was re-designed and, instead of placing all of the screens and the pumps at the level of the incoming sewer, the building was laid out so that Fairbanks-Morse sewage pumps would be housed in a pump pit and the raw sewage would be pumped up to the fine screens which were placed at practically ground level. It was at once evident that the amount of excavating would be considerably reduced and that the concrete construction would be considerably simplified—in fact, the difference in construction costs on this job actually paid for the sewage pumps.

Recently two stations have been installed by the city of Caruthersville, Mo., which were 7 feet 6 inches in diameter and 10 feet 8 inches deep, with each tank containing two 3-inch vertical pumps. Another installation is that of La Junta, Col., consisting of a single tank 11 feet 6 inches in diameter and 28 feet 7 inches deep, containing two 8-inch vertical sewage pumps and two 40-horsepower motors.

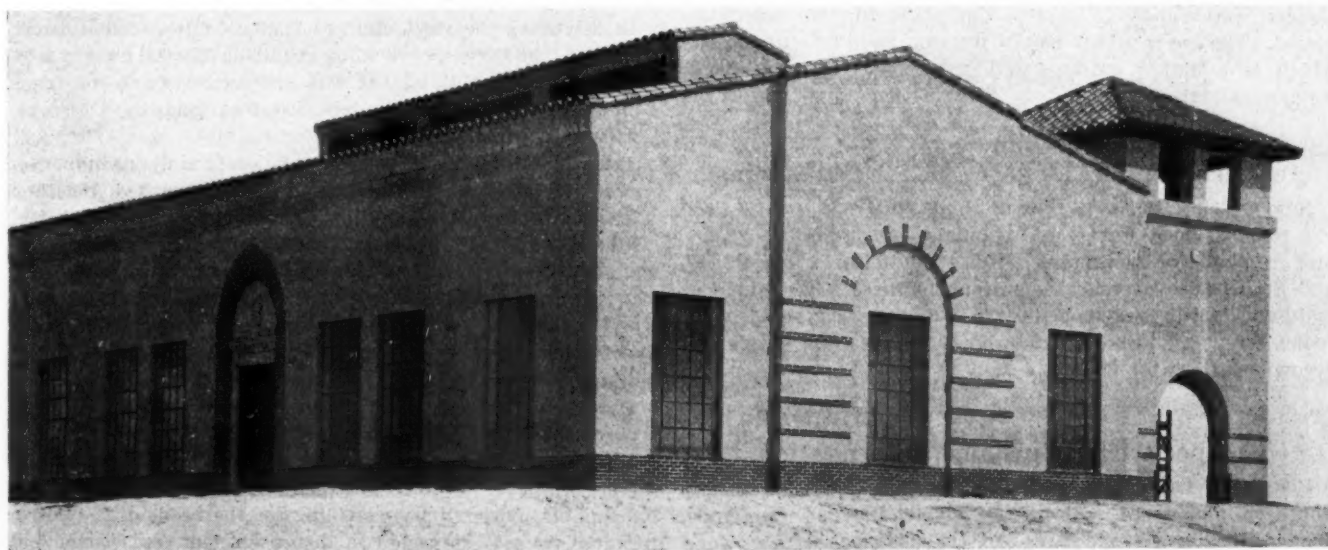
Municipalities often find underground sewage pumping stations highly satisfactory for extending sewer lines in changing the city limits or opening new subdivisions where the ground surface is so low that it is impractical to connect with existing sewers directly. Such stations may be relied upon when placed in remote localities where they can receive only occasional inspection or they may be installed beneath the busiest streets with the very least interruption of traffic during construction.



INTERIOR VIEW OF ST. PETERSBURG PLANT.

rapid wear, a very heavy power loss and results in low efficiency.

The advent of the two-blade closed impeller type of sewage pump has had a marked effect on the solution of this pumping problem. The impeller is of the enclosed type and has two blades and two ports, with very open waterways with smoothed edges that will pass any materials that enter, regardless of shape and texture. It is manufactured in horizontal and vertical types, with the essential features identical in each case. All the units are designed for side suction, and the smaller sizes will discharge at almost any position, as



NEW SEWAGE PLANT AT ST. PETERSBURG, FLA.

TREK OF NORTHERN TEXTILE MILLS TO THE SOUTH.

Finishing Mills and Rayon Plants to Feature Future Expansion of Industry, Declares Financial House Head.

The movement of cotton mills from the East and North to the South will undoubtedly continue, especially on the part of the stronger and larger corporations who can afford to make the change and at the same time probably continue to run one unit in their present location. This is the opinion expressed by H. J. Blackford, treasurer of A. M. Law & Co., of Spartanburg, S. C., dealers in municipal securities and mill stocks. In discussing the present situation in the textile industry, Mr. Blackford declared indications are that the tendency from now on will be toward the construction in the South of finishing plants—that is, bleacheries, dye works and print works rather than new mill construction. Further he said:

"Quite a number of very small fancy goods weaving mills and silk mills are thinking of moving part or all of their equipment South, and if these companies have been successful in the North they may have even greater success in the South. But if they have failed in the North we do not think that Southern labor or climate will rehabilitate them. The use of rayon is growing steadily and additional plants will undoubtedly be built for the manufacture of rayon yarn. There will also be constructed plants for dyeing and conversion of rayon yarn, such as the one now being built in Spartanburg as the Southern unit of the Yarns Corporation of America.

"There will probably be a growing tendency to manufacture mill supplies and materials going into the construction and maintenance of mills."

Opening of New Manganese Plant to Aid in Making United States Independent of Foreign Supply.

Production of ore started March 15 at the largest and most modern manganese nodularizing works in the world, the plant of the Domestic Manganese and Development Company at Butte, Mont. It is believed this plant will be a big factor in bringing domestic production to a point where the United States will be independent of the uncertain foreign supply of manganese ore. The plant represents an investment of \$500,000 and is used in roasting the rhodochrosite ores of Montana. Ores will be drawn from the Emma mine of the Anaconda Copper Mining Company, the Travonia mine of the Clark Montana Realty Company, and other properties of the Butte, Philipsburg and Basin districts. These have sufficient ore already determined to supply the plant for an indefinite period. The ore is said to run 57 per cent metallic manganese, which is a higher grade ore than any ever shipped from foreign countries.

Architects for \$875,000 Y. M. C. A. Building.

New Orleans, La.—The Young Men's Christian Association has commissioned Favrot & Livaudais, Ltd., of this city, to prepare plans for its proposed \$875,000 building on Lee Circle and St. Charles avenue. Important features will include a main and auxiliary gymnasium, 75-foot swimming pool, social rooms for men and boys, cafeteria, classrooms and dormitory accommodations for 200.

To Speed Up Louisiana Reforestation.

Bogalusa, La.—Between 10,000,000 and 12,000,000 young Southern pine trees will be set out in the cut-over lands around Bogalusa next year. In the past year there were harvested more than 5000 pounds of long leaf seed, which

will be used in the nurseries this year. Announcement was made recently by J. K. Johnson, forester. Since 1920 Bogalusa enterprises have endeavored to reforest not less than 5000 acres each year, the number of acres being dependent on the amount of seed available. The amount gathered last year was double the amount in any previous year.

Extensive Improvements at Winston-Salem by Southern Railway.

The Southern Railway System will proceed at once to provide adequate freight station facilities for Winston-Salem, N. C., supplementing the new Salem classification yard and modern engine terminal, recently completed, according to official announcement. These will consist of separate warehouses for inbound and outbound freight, transfer platforms, team tracks, and automobile platform, all served by paved driveways. Contract for construction of the buildings and platforms has been let to the J. J. McDevitt Company, Charlotte, and work will begin promptly.

A two-story extension 78 feet long is to be added to the present freight house, which, when extended, will be used exclusively for inbound freight.

A brick building 30 by 500 feet will be constructed as an outbound freight house. A two-story brick office building, 50 by 100 feet, will be erected at the north end of the two freight houses. There will be two covered platforms at the south end, 14 by 354 feet and 14 by 358 feet. An open transfer platform, 11 by 848 feet, will be placed between two of the three tracks serving the freight house. These tracks will have standing capacity for 68 cars. A new 30-foot teamway, paved with concrete, will be constructed on the east side of the new outbound freight house. A covered automobile platform, 24 by 234 feet, will be constructed north of the depot near Third street. This will be served by two tracks with capacity for five cars each and will have water connections and other necessary conveniences.

The main line of the Southern through the depot area will be relocated so as to lie east of the freight station and of the old yard.

The additional facilities recently completed by the Southern at Winston-Salem include an extension of the yard tracks east of the Union Station to provide capacity for 625 cars and the construction of a new engine terminal. All classification work, which includes the making up and breaking up of freight trains, is now done at this Salem yard. This relieves the downtown yard tracks of switching, except that necessary in service industries.

In extending the yard, eight and a half miles of new track were laid, the necessary grading requiring 270,000 cubic yards of excavating and filling. It was also necessary to construct a double 20-foot concrete arch, 200 feet long, over Brushy Fork creek.

The engine terminal consists of a six-stall roundhouse, served by 100-foot turntable, electrically operated, together with mechanical coal-handling plant of 300 tons capacity, steel water tank of 100,000 gallons capacity, cinder conveyors, engine inspection pit, and the necessary auxiliary buildings. Those include machine shop, power house, oil and storehouse, wash and locker rooms, and a number of smaller buildings, all of brick. The entire terminal was so designed that it can be economically expanded.

Car repair facilities were also provided, including a car repair shop, planing mill and car material storehouse.

Pipe line for water supply and fire protection, sanitary and storm drainage, steam lines, compressed air line, electric lighting and power lines, providing for the needs of the entire terminal, were constructed to insure efficient and economical operation. Outdoor lighting is by the flood light system.

Little Rock's New \$1,500,000 High School.

A new building, described as one of the most beautiful school buildings in America and typical of the modern type school structure being erected throughout the South, was recently completed in Little Rock for the senior high school. The structure is 564 by 365 feet, of stone, brick and steel construction, and contains 100 classrooms, all of which have outside light, the window panes being of special glass to admit actinic rays of sun. It contains an auditorium seating 2000, with a stage that will seat 1500 additional. A 10-ton curtain divides the auditorium into two rooms. The structure cost \$1,500,000.

There is a gymnasium with a stage 60 by 106 feet, and a cafeteria to seat more than 900. Facilities have been provided for college preparatory work and for vocational work. There is an automotive shop, print shop with departments for trade work and manual art work, electric and plumbing shop, manual training and woodworking room, mechanical drawing and drafting room, commercial-secretarial and accounting rooms, banking department, domestic economy department, and facilities for music, junior college work and physical training. A greenhouse for biological and other scientific work has been provided.

Plans and specifications were prepared by George R. Mann, Eugene John Stern, John Parks Almand, George H. Wittenberg and Lawson L. Delony, associated architects, with Arthur N. McAninch, architect's superintendent, all Little

Rock. Garver & Morrow are the structural engineers and Gordon Walker, general contractor, both Little Rock. The following sub-contracts were awarded:

Armstrong cork insulation and Barrett roofing—Stuart Roofing Company, Little Rock.

Building stone—Algonite Stone Manufacturing Company, St. Louis, Mo.

Cut stone—Hilliard Brothers, Little Rock.

Electric wiring and fixtures, signal system and Western Electric public address system, the latter furnished by the Graybar Electric Company, New York—Arkansas Electric Company, Little Rock.

Face and common brick—Acme Brick Company, Little Rock.

Hardwood flooring—E. L. Bruce Company, Little Rock.

Heating and ventilating—Federal Steam Specialties Company, Oklahoma City.

Heat regulating system—Johnson Service Company, Kansas City, Missouri.

Lime and cement—Fischer Cement and Roofing Company, Little Rock.

Lumber—Arkansas Lumber and Manufacturing Company, Cochran-Foster Lumber Company, Enterprise Lumber Company, J. R. Grobmyer Lumber Company, W. T. Hale Lumber Company, Hawkins Lumber Company, Home Lumber Company, Mechanics Lumber Company, Monarch Mill and Lumber Company, Nowlin Lumber Company, Planters Lumber Company, H. F. Rieff Lumber Company, David Russell Lumber Company and Union Lumber and Realty Company, all Little Rock.

Marble and tile—Southwestern Marble and Tile Company, Little Rock.

Plumbing and heating—Himstedt & Son, Little Rock.

Plumbing, heating and sanitary fixtures—N. O. Nelson Manufacturing Company.

Steel curtain for auditorium—Allen & Drew Corporation, Cambridge, Mass.

Welded pipe—Spang, Chalfant & Company, Inc., St. Louis, furnished by N. O. Nelson Manufacturing Company, Little Rock.

Windows, doors and millwork—Arkla Sash & Door Company, Little Rock.



SENIOR HIGH SCHOOL BUILDING RECENTLY COMPLETED AT LITTLE ROCK.

World Cotton Consumption Increased.

Manchester, England, March 9.—The half-yearly statistics relating to the consumption of American cotton issued by the International Cotton Spinners' Federation are of a bullish character. Last season the world consumption of American cotton was of record dimensions at 15,780,000 bales. For the six months ended January last, however, the consumption was 8,226,000 bales. Should only 7,554,000 bales be used for the next six months the consumption will even then equal the 1926-27 season. Statistics indicate that if the world consumption continues on the present level it will be necessary for America to produce crops of not less than 15,000,000 to 16,000,000 bales each season.

The following table gives the comparative figures of world consumption of cotton for the six months ended January 31, 1928, and for a similar period 12 months previously:

	Jan. 31, 1928.	Jan. 31, 1927.
	Bales.	Bales.
American	8,226,000	7,423,000
East Indian	2,303,000	2,818,000
Egyptian	489,000	487,000
Sundries	1,969,000	2,001,000
Total	12,987,000	12,729,000

The total world mill stocks of all kinds of cotton on January 31 this year were 4,882,000 bales, against 4,775,000 bales on the same date in 1927, and the stocks of American cotton were 2,867,000 bales this year, against 2,982,000 bales 12 months previously.

\$1,000,000 St. Louis Pythian Building.

St. Louis, Mo.—General contract has been awarded to the Dickie Construction Company for erecting the \$1,000,000 Pythian building, and contract for 450 tons of structural steel to the Mississippi Valley Structural Steel Company, both of this city. The building will be 150 by 150 feet, three stories and basement, with a tower section of seven stories and basement, the foundation to carry 20 additional stories. Trueblood & Graf are the architects and Brussel & Viterbo, engineers, both of St. Louis.

Lumber Orders Continue to Increase.

Continued gains in orders characterized the lumber movements during the week ended March 17, according to reports to the National Lumber Manufacturers' Association from 706 of the leading softwood and hardwood mills. Production and shipments were slightly lower in comparison with the preceding week.

In the softwood group, 352 mills reported an aggregate gain of 22,752,496 feet in orders and slight decreases in production and shipments, as compared with the preceding week. All three items, however, are far in advance of the corresponding period last year. The 354 reporting units in the hardwood group showed a slight increase in production and a negligible decrease in orders, with shipments steady, as compared with the figures of 342 units the preceding week.

"The Tenth Generation"

**The Southern States Life
Insurance Co.**

Atlanta, Ga., March 8.

Editor Manufacturers Record:

I understand you are reprinting in pamphlet form "The Tenth Generation," by Harry Stillwell Edwards, this appearing in your issue of February 2.

Enclosed we are handing you our check for \$50. Please send us 500 copies.

To my mind, this is the most impressive story I have ever read. It leads one to think deeply along lines to which ordinarily but little thought is given. This story should be read in an understanding way by every parent. Possibly it would result in a movement of "back to the home," so to speak.

If the pamphlets have no printing on the outside back page, I presume we may have the privilege of placing upon it some of our own.

WILMER L. MOORE, PRESIDENT.

We reprint the above in this form because the widest circulation of "The Tenth Generation," as stated by President Moore, would, we believe, be of the greatest value to the country, and because we would seek to arouse a nationwide interest in the study of the subjects presented by Mr. Edwards in his most unique and remarkable presentation of the supreme need of Christian education for the rising generation if we would save the generations yet to come.

East Texas Undertakes a Survey.

In line with the general study of their respective economic conditions by States, counties, cities and communities in the South, an industrial survey of East Texas is under way and, under the directors of the East Texas Chamber of Commerce will include an inventory of the manufacturing capacity of that section. The results are expected to show the number and variety of the products manufactured in East Texas, and to point to methods to improve the manufacturers' market and to offer the consumer greater inducements. The survey also is designed to determine lines for further industrial expansion.

\$1,500,000 Navigation District Bonds Sold.

Corpus Christi, Texas.—An issue of \$1,500,000 5 per cent bonds of the Nueces County Navigation District has been underwritten by William R. Compton Company, St. Louis. Proceeds will be used to extend the Corpus Christi port facilities.

Developing Small Farms in Florida.

The National Bulb and Nursery Corporation, located 10 miles north of Daytona Beach, at National Gardens, Florida, is advertising 10-acre farms, equipped with furnished house, barn, poultry, cow, tools and a variety of fruits ready planted, on terms described as very liberal; prices are quoted to inquirers. The corporation has for several years been preparing a tract of 25,000 acres for cultivation, clearing the land, cutting drainage ditches and building roads.

A great diversity of farming is planned for the Gardens. Bulbs and cut flowers of narcissus, gladiolus and other bulbous plants are said to yield a profit running into several hundred dollars an acre per year. Strawberries and other small fruits and berries, including figs, grapes, celery and other truck, poultry and dairy farming about complete the list. Intensive, year-round cultivation secures large returns from small farms. Photographs from the company show the use of tiers of boxes with strawberries growing in their sides a yard above the ground and peppers or other plants on their tops double or quadruple the cultivable area. Good drinking water, good roads, proximity to schools and churches, and a location close to the Dixie Highway and on the main line of the Florida East Coast Railway, with station, telegraph office, postoffice and general stores are further advantages claimed by the corporation.

\$4,000,000 Mississippi Paper Mill Projected.

A group of Southern Mississippi business men plan to build within a year a \$4,000,000 paper mill in that State, according to R. L. Grissom, manager of the Central Power and Light Company, Natchez, Miss. The location of the mill has not been definitely decided, but will probably be at Ten Mile, between Gulfport and Perkinston, on the Gulf and Ship Island Railroad. An abundant growth of young pine, it is said, insures ample raw material.

\$800,000 Southern Railway Building Let to Contract.

Atlanta, Ga.—Contract has been awarded to the United Engineers and Constructors, Inc., of Philadelphia, for erecting an \$800,000 addition to the office building in this city of the Southern Railway System, it is reported. Construction will include two additional stories to the main building and five stories to an adjoining building.

Bids for \$350,000 St. Petersburg Building.

St. Petersburg, Fla.—Bids will be received about April 10 for the Snell Isle Arcade to be erected here by C. Perry Snell at a cost of about \$350,000. The building will have a frontage of 130 feet and depth of 100 feet, the main portion to be two stories and basement and a tower section 7 stories. Richard Kiehnel of Kiehnel & Elliott, Miami and St. Petersburg, is the architect.

Electric Light Men to Meet.

Important business is expected to develop at the sixteenth annual convention of the Southeastern Division of the National Electric Light Association, to be held on April 11, 12, 13 and 14. The sessions will meet in the Roney-Plaza Hotel, Miami Beach, Fla., and advance information may be obtained from the association at Suite 207-8 Bona Allen Building, Atlanta, Ga.

L. & N. Kentucky Division Double-Track.

The Louisville and Nashville Railroad has completed the double-tracking of its Kentucky Division from Cincinnati, Ohio, to Harlan, Ky., 257 miles.

IRON, STEEL AND METAL MARKET

Pittsburgh Steel Market.

Pittsburgh, March 26—[Special.]—Steel mills are operating at their highest rate for nearly a year, but are doing so chiefly on momentum supplied by a good volume of contract business, on which specifications are coming in freely. Steel production in the quarter, as a whole, will run a trifle above that in the first quarter of last year, say 1 or 2 per cent.

Seasonally, a decrease in production would be expected after March, which has been the high month in four successive years, but the present outlook is that April at least will bring little, if any, decline, judging by the present pace of specifying against contracts.

Taken as a whole, the various steel-consuming lines show very little change from the condition of a year ago, the slight changes visible being in the direction of increases. Thus, fabricated structural steel lettings, as reported by the Department of Commerce, show, for January and February, 480,000 net tons, or 10 per cent increase over the same months of 1927 and 15 per cent increase over those months in 1926. Lettings have been running somewhat lighter this month, about 33,000 tons having been reported in the past week.

The automobile industry also shows a gain over a year ago. The gain, in total number of cars and trucks made, is a slight one, but it is very significant seeing that Ford was a heavy producer a year ago and is now a light producer, having contributed no more than 10 per cent at the outside to last month's production, while the percentage this month will not be much higher. Possibly there is a slight gain in steel consumption by the agricultural implement industry, which is running very well, but it was running well all last year.

The steel industry is running at a higher rate, relative to capacity, than are many of its customers, the rate in steel ingot production being nearly, if not quite, 90 per cent of reported capacity. The individual finishing lines are operating at various rates, rail mills being substantially at capacity, while sheet and tin mills are at very high rates; bar, shape and plate mills at moderate rates and pipe and wire mills at relatively low rates. Tin mill operations have been increasing, chiefly by way of the leading interest increasing its rate in the past fortnight from 78 to 86 per cent. Sheet mills are at close to 90 per cent, with shipments heavy in all directions, particularly to the automobile trade. Wire mills are doing only about 60 per cent, but that is a high rate for them, the average last year having been scarcely 50 per cent. For years there has been a remarkable excess of wire capacity over requirements. Pipe mills are doing 60 per cent or thereabouts, having a fairly good trade in standard pipe, while since year before last demand for oil country goods generally has been very light. Operations last year were helped out considerably by an unusual demand for line pipe, while this year is in doubt. There were heavy orders for the winter, but they are practically completed. Several large natural gas lines are in project, to run from Southern fields to Kansas City, Memphis and Omaha, respectively.

Steel prices are showing just a trifle easier tone. Advances appear to have ended entirely and the question now is whether the full announced advances will ever become the minimum of the market, large buyers generally being covered at prices below the maximum. In bars, shapes and plates the advance announced a month ago from 1.85 to 1.90 cents has now had a fair trial, the outcome being that it is not the market except perhaps on carload lots. Sheets are being shaded more or less and there are increasing irregularities in nails, priced by mills at \$2.65, while jobbers can

undersell this figure, having contracts and large stocks accumulated at old prices.

The Steel Corporation's rather sharp decrease in earnings from \$199,058,869 in 1926 to \$164,324,376 in 1927 was due chiefly to tonnage dropping 9.5 per cent. Earnings per ton dropped slightly, but were heavier than in 1926. Prices received were about \$6.75 per ton lower in 1927 than in 1924, but the earnings per ton showed only a few cents decrease, indicating that average cost of production decreased in the neighborhood of \$6 a ton in the three years.

Birmingham Iron Market.

Birmingham, Ala., March 26—[Special.]—With but little change in the manner of buying, the pig-iron market is the same as for some time. Small lot sales are numerous, the aggregate is a little more than the make, melters are asking for delivery and more tonnage is moving. Probable make of foundry iron during April has been well covered and there is no doubt that the present rate of selling will continue through the entire second quarter. Many of the melters of pig-iron in this district are confident there will be no upsetting of conditions for some time yet, with deliveries very active through the first half of the year. Stove foundries, pipe shops and other steady melters are accepting iron right along. Pressure pipe shipments will be numerous in another fortnight; the new quotation base, \$30 to \$31 on six-inch and over sizes, has not interrupted the steady trade which sets in as spring approaches.

Furnace companies are booking business, although orders in the main are for a few car lots at a time. In many instances there is a willingness to take iron immediately and this business is handled promptly.

Mechanically-made cast iron pressure pipe is being produced steadily. There is a little better production of soil pipe also. The melt is extending to castings, specialties and so on.

Sloss-Sheffield Steel and Iron Company is dismantling its No. 1 city furnace and should by the end of the year have the rebuilt iron-maker with the Dovel appurtenances in operation. The two new blast furnaces of the Tennessee Coal, Iron and Railroad Company at Fairfield, each to have 600 tons daily output of basic iron, are almost completed. The cost of iron production will be low at this point, inasmuch as the raw material will be assembled at the very lowest figure. Ore will be dumped into the furnace bins from the railroad which brings the product from the mines; the coke will be brought by conveyors from the by-product coke works; the molten metal will be carried in hot pots to the open hearth furnaces. Other elimination of waste energy will be brought about; economical operation is spreading throughout the Birmingham district. Greater production of benzol and other products is included in the new ovens at by-product coke works of this district, while slag and other material at the blast furnace plants finds outlet. Slag from the open hearth furnace is proving a most profitable product.

In steel circles there are continued bright prospects. Several shapes of steel are in active demand. Much plate is being used in tank and similar work in the home territory. The several structural steel fabricating shops are still finding local contracts quite profitable. Wire and nails are also in good demand.

The coal mining industry lags. Alabama By-Products Corporation mines are active, the by-product works and the commercial business of the company calling for a large amount of coal. The company has rehabilitated the two convict

camp, Banner and Wegra, and has built up in their stead excellent mining camps, new houses, schools and churches being built and a splendid lot of labor brought in. Announcement is made that the mines at Wegra, 20 miles from Birmingham, instead of being nearly worked out, have seams of coal which are estimated to show available 160,000,000 tons of good coal. The coke market is holding its own, and while all by-product coke works are in operation, there is no pushing for output. Foundry coke price base is still \$5.

Scrap iron and steel is more steady with quotations still low. Much old material is moving and indications are there will be continued active delivery.

Pig-iron and iron and steel scrap quotations follow:

FIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.50; iron of 2.75 to 3.25 per cent silicon, \$17.00; iron of 2.35 to 3.75 per cent silicon, \$17.50; charcoal iron, f. o. b. furnace, \$29.00.

OLD MATERIAL.

Old steel axles	\$16.00 to \$17.00
Old iron axles	16.00 to 17.00
Old steel rails	11.50 to 12.00
Heavy melting steel	10.75 to 11.00
No. 1 cast	14.00 to 15.00
Stove plate	13.00 to 14.00
No. 1 railroad wrought	11.50 to 12.00
Old car wheels	14.50 to 15.00
Old tramcar wheels	15.00 to 15.50
Machine-shop turnings	8.00 to 9.00
Cast-iron borings	8.00 to 9.00
Cast-iron borings (chem.)	13.00 to 13.50

The Metal Market.

New York, March 26—[Special.]—Trends in the metal markets have not been very pronounced during the past week, with just enough exceptions, however, to prove the rule. Thus, tin was plainly on the ascendancy along with the stock market, while antimony dropped to the lowest level this year, selling at 9½ cents per pound, although ten days ago it had shown a burst of strength to 10½ cents.

The favorable aspects of the metals situation outweigh the adverse features. In copper the prospects are better than the immediate performance. These better prospects are due to the certainty that consumers are very poorly covered on their April needs and to the fact that business of the copper wire makers has improved materially in the past several days.

The most spectacular development has been in zinc, where the ore producers have at last realized their goal of \$40 per ton for ore and a weekly production of only 8000 tons of ore instead of 12,000 tons. The question now is whether the mine operators will be tempted to speed up production and defeat the situation for which they so painfully labored. The price of prime Western slab zinc has not yet responded completely to the better situation of the raw zinc market.

The "silvers" have gained in strength. Domestic silver has been selling at 57½ cents per ounce, which is as high as any time this year. Quicksilver rose sharply on the rumor that Spanish and Italian producers have got together to pull for higher prices. The London price rose 10 shillings to £22, and the domestic price advanced about \$2 per flask to \$123 in 75-pound lots.

It was perhaps natural for the tin market to be strong in sympathy with the New York Stock Exchange, as both are speculative institutions. Buying of tin was very spirited, total sales for the week having been about 2000 tons, and it comes to light that sales the previous week were larger than first estimated, now about 3000 tons. At the middle of the week the price reached 53½ cents per pound, which is 3½ cents above the quotation of two weeks ago, a rapid recovery even for tin.

Authorities differ as to the prospects for tin plate consumption in 1928. The steel makers state that the consumption in the canning industry will be large, but this may be based on the large orders being placed by the canners,

with apparent disregard for the demand for cans. Those close to the canning industry and grocery trades, however, predict a small pack. A Wisconsin authority on canning states that shipments of fresh produce so far this year for the country as a whole is 135 per cent in excess of those a year ago, while it had already been stated that shipments into New York had been 10 per cent above the previous record. These figures would therefore indicate a lessened consumption of canned goods.

Tin consumption in the automotive industry will probably be larger this year in view of the favorable reports of automobile production. Tin selling was unusually brisk at both London and Singapore during the past week.

Copper is traveling in the same narrow cycle which has prevailed since December 7, the date upon which Copper Exporters, Inc., fixed the export price at 14½ cents c. i. f. European ports. The leading producers hold fast to 14½ cents, delivered to the Connecticut Valley, but each day of dullness sees a further concession among custom smelters of 2½ points, this "outside price" now being down to 14 cents. On the previous dip 13½ cents was reached, after which the price came back to 14½ cents firm.

Again export sales were brisker than those to domestic consumers, but, altogether, the market was quiet. The copper export association held a meeting the middle of the week; previous to this there was a rumor that body might reduce the price, but the meeting resulted in no such action. The price for export has been ½ cent per pound higher, freight considered, than the domestic quotation, a situation which has nettled the British consumers, who have talked some of forming a European consumers' association, to combat the organization of exporters.

Of mild interest to Americans was the report that German canners are experimenting with aluminum sheets in the making of cans for foodstuffs. Though aluminum is dearer than tin plate, the experimenters have proposed that empty cans be returned, remelted and reshaped. However, this system does not seem practical because of the indifference of the public in returning such receptacles. Besides, it is difficult to apply solder to aluminum.

The lead market has been very steady throughout the period. Prices are uniform among sellers at 6 cents per pound, New York, and 5.80 cents, East St. Louis. Lead is the only major metal selling at a price which corresponds with the 1928 low. Producers are disappointed because prices have not rebounded. Buying was of moderate proportions, mostly for carload lots and for prompt delivery.

Zinc has been selling at 5.65 cents to 5.67½ cents, East St. Louis, for prompt shipment, although futures have commanded premiums of 50 cents to \$1 per ton. Despite the prospects for higher prices, consumers have not been especially inclined to purchase. For one thing, they are pretty well taken care of under contract for their needs over the next few weeks.

Many New Locomotives Placed in Use.

Class 1 railroads in the first two months this year installed 325 locomotives, according to reports filed by the carriers with the Car Service Division of the American Railway Association. Compared with the corresponding period last year, this was an increase of 20 locomotives.

New Boilers and Turbine for Power Plant.

Victoria, Texas.—Plans for the installation of two 723-horsepower boilers and a 9000-horsepower turbine in its power plant here have been made by the Central Power and Light Company of San Antonio. This equipment will increase the capacity of the unit to 13,500 horsepower.

GOOD ROADS AND STREETS

CITY TUNNELS TO SPEED MOTOR VEHICLE TRAFFIC.

Building Highways Under Rivers and Mountains to Help Solve Congestion Problem.

Confronted by the ever-increasing traffic problem created by the automobile and aroused by prospects that this will be much worse within the next two to five years, many American cities and States are building giant tunnels under bays, rivers and mountains and planning tiers of streets in their main business sections, the cost of which will exceed \$100,000,000.

Modern tunnel building received its greatest impetus from the success of the Holland vehicular tunnel under the Hudson River and the fact that it could be so efficiently ventilated by mechanical means. Tests proved that air conditioning made the air in the tunnel purer than that in the open spaces of Fifth avenue, despite the fact that thousands of automobiles pour out tons of deadly carbon monoxide gas into the tunnel every hour.

In the fall of 1926 several nationally known ventilating engineers declared that advances achieved in the science of controlled air would make it possible economically to manufacture ideal weather conditions for underground activities. One of the first big ventilating jobs completed was the Liberty tunnel, which was cut through a mountain in Pittsburgh.

Of the tunneling and other subterranean projects now under way, perhaps the most unusual in conception and method of building is the underwater vehicular tube connecting Oakland, Cal., and Alameda under the Oakland inner harbor. This tube, which will be opened next July and will have cost \$4,500,000, is 4400 feet long and has an inside diameter of 37 feet, seven and a half feet larger than the inside diameter of the Hudson twin tubes. It will contain two street car tracks and will be capable of handling a traffic flow of 2000 automobiles an hour. It is said to be the world's first precast tube; it was precast in 12 segments, each 203 feet long and each weighing 5000 tons. After the Oakland and Alameda approaches were built, the tube segments were floated into place and sunk; each segment was joined to one already in place by a huge steel collar; concrete bulkheads at the ends of the segments joined were then knocked out and joints further strengthened from the inside.

To ventilate these big tubes, fresh air will be drawn in at the portal building at each end. Sixteen-foot fans, propelled by 100-horsepower motors, will send fresh air into ducts underlying three-foot sidewalks on each side of the tube. The interior air will be released from ducts along a curb crevice, which is covered with sheet metal and may be adjusted to control the amount of air to be released. Vitiating air will be drawn off through ceiling louvers at 15-foot intervals, carried outward to each end in the attic chamber and released at the portal buildings.

With the completion of the Moffat-Evans tunnel, which pierces the Rocky Mountains for more than six miles through the Continental Divide at an altitude of between 8000 and 10,000 feet, there is a direct short cut from Denver to Salt Lake City as a result of one of the greatest engineering feats ever attempted. The tunnel—hewed through miles of solid rock—required three and a half years to build and cost approximately \$42,000,000. While built primarily as a railway tunnel, automobiles are taken through on flat cars for a nominal charge. To drive out dangerous gases and smoke,

huge fans were installed to blow 65-mile gales through the passage at a rate of 450,000 cubic feet of air each minute.

The city of Detroit has started work on a vehicular tunnel under the Detroit River to connect the heart of its business district with Windsor, Ont. This \$15,000,000 tunnel is to be completed early in 1930. It will be 5300 feet long, and will largely eliminate the use of ferry boats. It will have a roadway 24 feet wide for three lanes of traffic, a capacity of 1500 automobiles an hour during the rush periods. Its diameter averages 39 feet. Giant fans will completely change the air every one and a half minutes by forcing air currents through from under the roadway, while vitiated air will be exhausted overhead. There will be a ten-story terminal building at the Detroit end of the tunnel, with extensive yards for customs officials.

Albany is planning a \$5,000,000 tunnel under the Hudson River to connect it with Rensselaer on the other side. Automobiles will enter and leave the tunnel by means of a spiral "staircase" whereby each vehicle would make two downward circles before reaching the tunnel level from the street.

Other American cities are planning or have started construction of subways and tiered streets in addition to their aggressive programs of widening present thoroughfares. Cincinnati is completing a new subway system. Agitation for subways in Chicago, Detroit and Cleveland is accumulating. Engineers are completing plans for a "two-deck" street in Toledo. That city also is active in organizing various interests in efforts to obtain the construction of a boulevard 200 feet wide and 50 miles long to connect it with Detroit along the water front of Lake Erie.

Motor Express to Cover 250-Mile Route in Minnesota.

Granting a certificate of public convenience and necessity to the Minnesota Motor Express Company to operate an express truck line from St. Paul and Minneapolis to Fargo, N. D., and intervening cities—a distance of approximately 250 miles—the Minnesota Railroad and Warehouse Commission, by two-thirds majority has handed down a decision which may be of far-reaching importance in the development of truck freighting in that State.

Railroad officials have contended that the operation of trucks is suitable for distances of not more than 50 miles. The schedule of rates as fixed by the commission order on shipments proposed for the truck line are considerably below the rates proposed by the applicant. The rates fixed by the Minnesota commission, which are to include pickup and delivery service for the shippers, are identical with freight rates for about half of the total distance and cheaper than freight rates for the longer haul. Whether the Motor Express Company will attempt to operate with the rates as fixed by the commission has not been decided.

The rates proposed by the company and approved by two of the three members of the commission are based on, but cut from 20 to 25 per cent under, the classification of the American Railway Express Company and are more than double the rates truck carriers licensed heretofore have been ordered to observe.

The State Revenue Department, Raleigh, N. C., awarded contract to the Western Stamping and Manufacturing Company, Cleveland, Ohio, for 525,000 automobile tags, 12,000 dealers' tags and 2000 motorcycle tags.

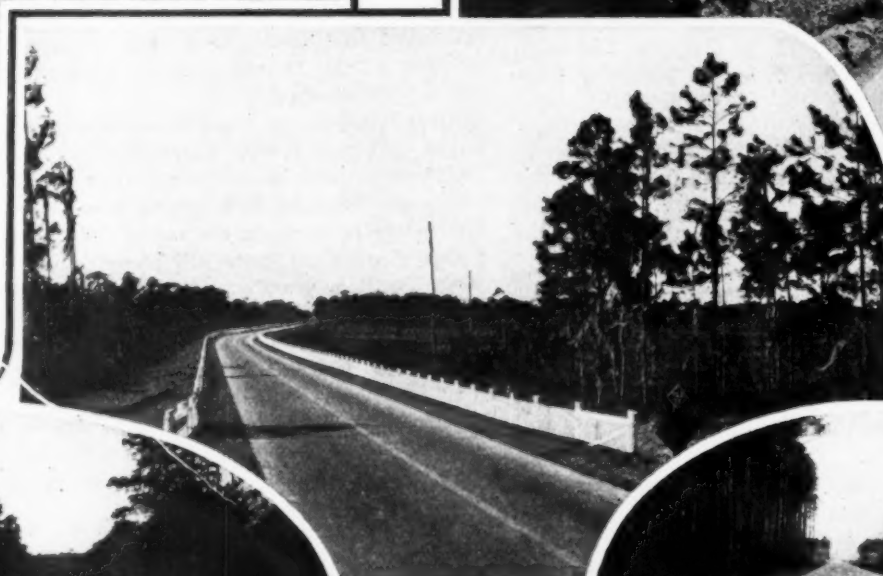
Some Fine Examples of Paving in the South.



Above—
Concrete Road
Near Hinds,
Miss., Jackson to
New Orleans
Route.



Above—
Portland Cement High-
way Crossing the Blue
Ridge Mountains Near
Asheville, N. C.



A State Road in
Polk County, Fla.



A Wide Concrete Highway Near Richmond, Ga.



Concrete Highway in Accomac County, Va.

\$1,700,000 North Carolina Road Contracts Let.

Raleigh, N. C.—Contracts have been awarded by the State Highway Commission on 14 road projects and one bridge project at a total of more than \$1,700,000. Road work will embrace 78.67 miles of paving to cost \$1,434,680 and 35.59 miles of grading, with structures, to cost \$215,519. The bridge project covers a structure over Trent River at Pollocksville to cost \$61,726.

Virginia Asks Bids on 27 Miles Road.

Richmond, Va.—Bids will be received April 5 by the State Highway Commission for four road projects to cover 27.7 miles, including 5.8 miles of concrete in Accomac county; 6.2 miles of concrete in Northampton; 8.4 miles of rock asphalt in Henry, and 7.3 miles of rock asphalt in Franklin county.

\$13,000,000 Road Bonds Sold by Arkansas.

Little Rock, Ark.—Highway bonds totaling \$13,000,000 have been sold by the State of Arkansas to a syndicate consisting of the following: Halsey, Stuart & Co., Inc., Chicago; Equitable Trust Company, Redmond & Co., B. J. Van Ingen & Co., National Park Bank, Howe, Snow & Co., Inc., R. W. Presprich & Co. and Pulleyn & Co., all of New York; E. H. Rollins &

Sons, Boston; First National Company, Kauffman, Smith & Co., Inc., and Stifel, Nicolaus & Co., Inc., all of St. Louis. The bonds will bear interest at 4¼ per cent, the purchase price being 101.22.

Director of Highway Research Board.

Prof. F. H. Eno, chairman of the executive committee of the Highway Research Board of the National Research Council, announces the appointment of Roy W. Crum, Ames, Iowa, as director of the board, effective April 1, 1928.

County Plans \$1,250,000 Road Work.

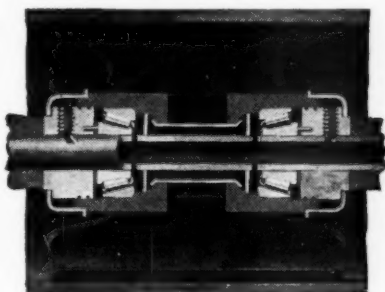
Aiken, S. C.—Road work to cost about \$1,250,000 will soon be started by the Aiken County Commissioners, who have been authorized by the county delegation in the legislature to sell bonds and complete a reimbursement agreement with the State Highway Commission for paving several important roads in the county.

Midland, Texas.—Ellis Howell of this city plans to put in operation about April 1 a 465-mile bus line between Midland and Chihuahua, Mexico, touching the Texas towns of Rankin, McCamey, Girvin, Fort Stockton, Marfa, Alpine and Presidio, and a number of Mexican towns, including Ojinaga.

NEW AND IMPROVED EQUIPMENT

Standardized Jeffrey Belt Carriers.

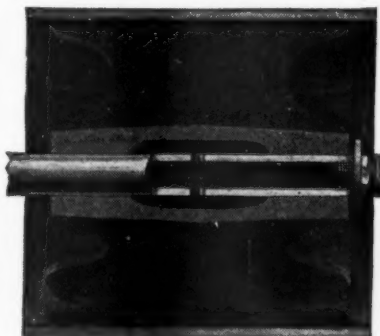
The Jeffrey Manufacturing Company, Columbus, Ohio, has standardized the Jeffrey belt carriers for Jeffrey belt conveyors, so that the same stands and bases can be used with any one of the three types of pulleys—the plain bearings, the bronze bushed and the roller bearing. These grey iron pulleys share three characteristics—they are made with open ends;



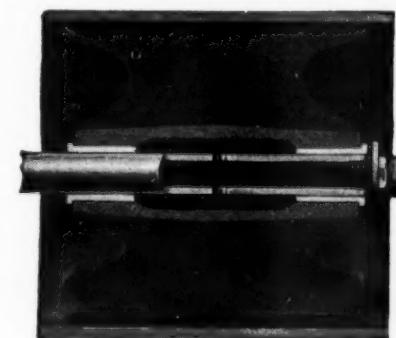
ROLLER BEARING.

Pulleys with plain or bronze bushed bearings have hubs specially cored out to form large recessed grease pockets connecting with the Alem-

ite pressure lubrication fittings at the end of the hollow shaft. The reserve supply of grease will last until the next oiling, where an ordinary pulley would run dry, stick, wear flat and eventually ruin the belt. For belt conveyors installed to carry materials that are se-



PLAIN BEARING.



BRONZE BUSHED.

in place of solid ends to insure rigidity of the walls, three arms join the hub and roll, and between the arms six ribs provide additional lengthwise rigidity; the free carbon in the grey iron acts as a rust repellant.

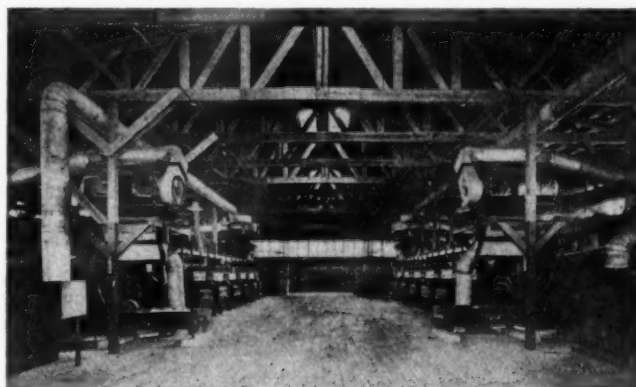
vere on metal bearings, coke breeze for example, Jeffrey makes a roller-bearing pulley pressure greased, accurately fitted and five times grease-sealed.

The labyrinth construction provides five pairs of closely joined metal surfaces, keeping powdery abrasives from reaching the bearings. Slots in each collar make possible perfect adjustment and concentric running.

Reginning and Cleaning Device.

James C. Garner & Sons, Houston, Texas, have completed for Litowich Bros., Houston, the installation of one of the largest and most complete Alrclean systems in the country, embodying many improvements in cotton cleaning. It is the invention of James C. Garner. Several machines are combined to open-up, clean and finely separate the fibers, leaving the cotton smooth and resembling regular ginned cotton, without the appearance of having been machined, it is said. The principal cleaning features embody the use of centrifugal force, gravity and vacuum. The heavier particles are separated from the lighter particles of lint, which is held sus-

pending in the vacuum current and the trash motes and heavier matters are thrown by centrifugal force from the fiber laden air current, permitting a thorough cleaning without crowding or subjecting the fiber to a severe treatment, the manufacturers point out. The cotton is first opened-up and

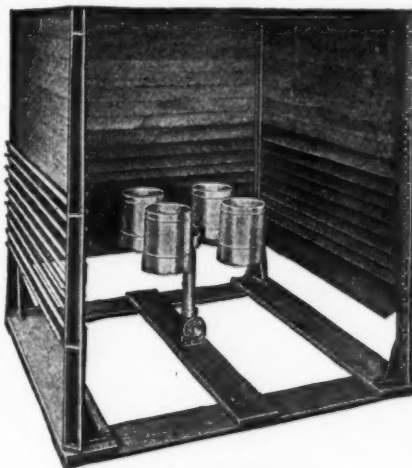


THE CLEANING SYSTEM INSTALLED.

prepared for the cleaning process, and is carried by vacuum suction rapidly through each machine, so that cleaning is effected without napping the fiber. It is said that this invention will facilitate the use of mechanical pickers for harvesting cotton, by making it possible to clean the cotton after it is ginned on the standard cotton gin.

A Spray Cooling Tower.

The "Marley" Spray Cooling Tower, manufactured by the Power Plant Equipment Company, Kansas City, Mo., is adapted to ice plant, oil engine and similar installations where small quantities of water must be cooled continuously. Its small size conserves space and makes it readily adapt-



THE COOLING TOWER.

able where space is limited, and its simplicity makes installation easy; no anchoring is required and it may be mounted above a collecting basin.

The "Marley" tower occupies an area 8x8 feet, and is 9 feet tall, and thoroughly cools any quantity of water up to 100 gallons per minute, capacities being varied by a change of nozzle capacities.

Construction throughout is otherwise standard. The main support frame is of cast iron, slotted to hold louvre boards without nails, screws, bolts or other fasteners. The tower comes as a complete unit, ready for operation, no extra parts being required except water supply line connection. Actual erection is easy and simple, requiring only a few hours of work, state the manufacturers.

The city of Kingsport, Tenn., votes May 5 on a \$400,000 bond issue for a new water-works plant.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

Ark., Fayetteville—City, Allan M. Wilson, Mayor, interested in municipal airport, plans bond issue. See Financial News.

Ark., Pine Bluff—Arkansas Airport Co., L. Garrett, Pres., advises, has 102 acres, Free Bridge Rd. for landing field, 50 acres for manufacturing plants, schools, etc., and 72 acres for amusement purposes, to be modernly equipped; erecting \$40,000 clubhouse, etc. 3-15

Fla., Sarasota—Bee Line Airways Corp., B. J. Britton, Pres., reported, plans establishing airport; build hangars, shops, etc.

N. C., Charlotte—E. C. Griffith, Chmn., Chamber of Commerce Airport Committee, reported, has option on 215 acres at Camp Greene for airport. 2-16

N. C., Raleigh—C. C. Page, 307 N. Blockworth St., and associates, reported, soon begin work on Marshburn-Robbins municipal airport, Garner Rd. 3-8

Tenn., Memphis—City interested in converting Mud Island into municipal airport; Watkins Overton, Mayor. 2-23

Tex., Austin—City, reported, plans expending \$75,000 on airport. See Financial News. 3-8

Tex., Corpus Christi—City, reported, plans establishing municipal Aviation Field; P. G. Lovenskold, Mayor. See Financial News. 3-23

Va., Hampton Roads Br. Norfolk—Newport Contracting & Engineering Co., Newport News, reported, low bidder at \$149,000 for hangar and shop at Naval air station. 3-1

Va., Richmond—C. S. Luck & Sons, 1617 Brook Rd., reported, has contract for constructing runways, municipal airport. 3-8

Bridges, Culverts and Viaducts

Proposed Construction

Arkansas—State Highway Comm., reported, receives bids for 37 bridges. See Roads, Streets, Paving.

Ark., Arkansas City—Henry Thane, reported, plans bridge across Mississippi River, Arkansas City, to Bolivar County, Mo.; permission from both counties necessary.

Fla., Jacksonville—M. W. Bishop, City Clk., and Jacksonville Terminal Co., reported, receive bids soon for 1400-ft. rein. conc. and struct. steel viaduct, 21 ft. above tracks, 52-ft. roadway; \$620,000; W. E. Shedd, Engr., has preliminary plans.

Fla., Tampa—Hillsborough County Commrs., W. A. Dickenson, Clk., reported, receive bids Mar. 30 for bridge across Hillsborough River, Twenty-second St.; 100-ft. steel span, 2 timber trestle bents.

Kentucky—See Roads, Streets, Paving.

La., New Orleans—War Dept., reported, approved plans, \$10,000,000, Hero-Hackett Bridge across Mississippi River, New Orleans to Gretna; Waddell & Hardesty, 150 Broadway, New York, Consulting Engrs. 2-2

Md., Baltimore—City, Wm. F. Broening, Mayor, expects to let contract in few weeks for Russell St. viaduct over Gwynns Falls and Western Maryland R. R. tracks; \$288,000. 1-12

Miss., Akerman—See Roads, Streets, Paving.

Miss., Belzoni—Humphreys County Bd. of Suprvs., A. R. Hutchens, Clk., reported, receives bids Apr. 2 for bridge across Pearce's Bayou, Suprvs. Dist. 3.

Miss., Gulfport—Harrison County Bd. of Suprvs., reported, plans \$275,000 conc. bridge, Biloxi Bay, connect Biloxi and Ocean Springs, Beat 1. See Financial News. 2-23

Mo., St. Joseph—J. Sverdrup, Ch. Bridge

Engr., Missouri State Highway Dept., Jefferson City, reported, let contract Apr. 2 for toll-free Missouri River Bridge between Missouri and Kansas; continuous steel span, 3 piers, 27-ft. roadway; both approaches have grades and turns; State Highway Dept. will build east approach and supervise bridge construction; \$400,000 available. 12-8-1927

N. C., Hallsville—State Highway Dept., Raleigh, reported, submitted plans to War Dept. for bridge over Northeast River above Hallsville.

N. C., Wilmington—State Highway Comm., Raleigh, reported, received low bid from Merritt, Chapman & Scott, Inc., New York, \$313,773, for substructure and Vincennes Bridge Co., Vincennes, Ind., for superstructure for Cape Fear River Bridge, consisting of Cape Fear and Northeast River bridges; each bridge 2000 ft. long, double leaf draw; Cape Fear Bridge, 185-ft. clear draw; Northeast River Bridge, 124-ft. opening. 3-8

Oklahoma—State Highway Comm. received low bids for 17 bridges. See Roads, Streets, Paving.

S. C., Charleston—Cooper River Bridge Co., Inc., Chas. R. Allen, V.-P., 148 E. Bay St., reported, invites bids Apr. 5 for Cooper River Bridge. 3-8

Tex., Austin—See Roads, Streets, Paving.

Tex., Brenham—Washington County Commrs., reported, plan bridge over Mill Creek, Muellersville-Welcome and Industry Rd.

Tex., San Antonio—Bexar County Commrs., Court, reported, appropriated \$28,250 for bridges in county: \$15,000, bridge across Cibolo River, Seguin Rd.; \$13,500, bridges on Gonzales Rd., and repair bridges on Ware Rd.

Virginia—Channing M. Ward, 2314 Grove Ave., Richmond, reported, plans bridges across Potomac, York and James Rivers, links in George Washington Highway, New York to Florida; Robinson & Steinman, 117 Liberty St., New York, preparing plans. 3-15

Va., Fairfax—Fairfax County Engr. Larkin, reported, plans \$11,000 grade crossing, Springfield Station.

Va., Wytheville—State Highway Dept., Richmond, reported, considering bridge over New River, between Jackson Ferry and Austinville, Wythe County.

W. Va., Ravenswood—E. M. Elliott and associates, 360 N. Michigan Blvd., Chicago, Ill., reported, plan bridge over Ohio River near here.

Contracts Awarded

Ark., Piggott—State Highway Dept., Little Rock, reported, let contract to Pittsburgh-Des Moines Steel Co., Des Moines, Iowa, \$9566, for 229-ft. treated timber pile bent bridges, 120-ft. approaches, Corning-Piggott Rd., Clay County.

N. C., Greensboro—Guilford County Commrs., reported, let contract to F. T. Yow for 4 steel and conc. bridges: 2 over Deep River, Haw River, Reedy Fork Creek.

Okl., Oklahoma City—A. E. Alward, reported, has contract, \$17,440, for 2 culverts; Jim Beaty, \$10,420, for culvert.

Tex., Sheridan—Austin Bridge Co., 1813 Clarence St., Dallas, reported, has contract for 100-ft. bridge near Sheridan, Colorado County; S. K. Seymour furnishes material.

W. Va., Kanawha—McClintic-Marshall Co., Pittsburgh, Pa., reported, has contract for 1000 tons struct. shapes for bridge across Kanawha River.

Canning and Packing Plants

Ark., Ashdown—Akin Canning Co., Seneca, Mo., reported, establish canning plant. 3-22

Ga., Macon—Middle Georgia Packing Co.,

V. P. Stirewalt, Pres., and Williams Mfg. Co., 561 Third St., reported, construct pimento canning plant.

Ky., Owensboro—Owensboro Preserving & Canning Co., Geo. Panagos, Gen. Mgr., reported, plans canning and preserving plant George St.

Tex., Weslaco—Chamber of Commerce, reported, negotiating with Lee Akin for canning plant.

Clayworking Plants

Tenn., Sunbright—Tennessee Oil and Gas Co. advises not contemplating erecting pottery plant; have gas field with open flow 6,000,000 ft. daily; with additional development would need pipe line; have plenty of gas for industry that might be looking for location, such as pottery plant, tile, etc. 3-15

Tex., Mexia—Bridgeport Brick Co., Santa Fe Bldg., Dallas, reported, acquired Mexia Brick Co.'s plant.

Coal Mines and Coke Ovens

Ala., Cullman—Bacon-Fuller Coal Co., Asa B. Fuller, Sec., plans developing coal and clay land, Cullman County. See Want Section—Machinery and Supplies.

Mo., Novinger—Sunshine Coal & Mining Co. incorporated; R. W. Kelly, Arthur Thomas, J. W. Pierson.

Tenn., Chattanooga—Blue Valley Coal Co., First Nat'l Bk. Bldg., incorporated; W. G. Oehmlg, Jr., I. G. Phillips, C. Y. Lynch; operating mines on Tennessee River near Ladd Station.

Concrete and Cement Plants

Ga., Rome—Rome Concrete Products Co., reported, organized with F. G. Burghart, Miami, Fla.; daily output 2000 blocks.

Mo., St. Louis—Missouri Portland Cement Co., Southwestern Bell Telephone Bldg., reported, let contract to Gamble Construction Co., 620 Chestnut St., mill improvements, Prospect Hill section; \$250,000.

Tenn., Chattanooga—Shearman Concrete Pipe Co., Inc., Fred L. Conner, Pres., Groves Bldg., Knoxville, reported, establish concrete pipe plant, daily output 100 tons; \$15,000.

Tenn., Memphis—Synthetic Stone—Marble-ite Corp. chartered; G. H. Partin, 1685 Galloway Ave.

Tex., Austin—State Bd. of Control, R. B. Walthall, Chmn., investigating with view to establishing State-owned cement plant; may operate as one of industries of State prison system; R. H. Baker, Chmn. of State Prison Committee, interested.

Tex., Port Aransas—Monolith Portland Cement Co., Monolith, Cal., reported, construct cement plant, Harbor Island; acquired necessary terminal rights; raw material, shell 2-2

Cotton Compresses and Gins

Ark., Forrest City—C. A. Manley, reported, install \$35,000 automatic sprinkler system.

Ark., Monette—Alex McDonald, reported, build cotton gin.

Miss., Louisville—Louisville Compress Co., reported, install 600 saw gin.

Tex., Byrd—Byrd Gin Co., capital \$12,000, incorporated; D. S. and Lee Bain.

Tex., Corpus Christi—Aransas Compress Co., reported, let contract to W. C. Thrallkill, Builders Exchange Bldg., San Antonio, for plant extension; Globe Automatic Sprinkler Co., Philadelphia, Pa., has contract at \$41,900 for sprinkler system; increased capital, \$1,000,000 to \$1,250,000; Hardy & Curran, Architects, Nixon Bldg. 3-15

Tex., Crandall—Dietz Gin Co., capital \$20,000, incorporated; R. S. Dietz, J. Jones.

Tex., Houston—Magnolia Compress Warehouse Co. increased capital \$600,000 to \$700,000.

Tex., Port Lavaca—W. C. North, Alice, reported, construct gin.

Tex., San Elizario—Farmers Gin Co., capital \$20,000, incorporated; L. B. Boon, Don Campbell.

Tex., Shamrock—Niles-Harrison Gin Co., capital \$60,000, incorporated; W. D. Niles, L. N. Harrison.

Tex., Wheeler—Lone Star Gin Co., capital \$85,000, incorporated; G. O. McCrohan, John Hood.

Drainage, Dredging and Irrigation

Mo., Fulton—Drainage Dist. of 500 acres being formed, Missouri Bottoms, Callaway County; David H. Harris, County Judge.

Mo., Kennett—Bd. of Levee Dist. No. 7 soon award contract for constructing St. Francis River levee; bids in; A. C. Spiker, Ch. Engr.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Citronelle—Citronelle Ice & Light Co., reported, installing 100 h.p. engine; dig test well, erect tank; supply city with water.

Ala., Fairhope—Alabama Power Co., Birmingham, reported, negotiating for light plant.

Ala., Montgomery—City, reported, install 175 street lights in newly annexed territory.

Ky., Paducah—City, Ernest Lackey, Mayor, plans voting in Nov. on electric bonds.

La., Alexandria—George G. and A. G. Scallan, reported, have contract for brick power plant addition; E. Leo Bail, Archt. 3-15

Md., Baltimore—Consolidated Gas, Electric Light and Power Co. votes Apr. 4 on increasing total authorized amount of capital stock from 1,450,000 shares to 1,500,000 shares.

Miss., Lexington—Mississippi Power and Light Co., Jackson, reported, completed survey proposed high line, Lexington to Durant; furnish power to Valden, West, Goodman and Pickens.

Miss., Myrtle—Mississippi Power & Light Co., Jackson, reported, has franchise, install light system.

Miss., Yazoo City—Mississippi Utilities Co. furnish towns of Louise, Midnight and Silver City with electricity, purchase power from Yazoo City.

Missouri—Interstate Power & Light Co., subsidiary of Northern States Power Co., Trinity Bldg., New York, reported, acquired lighting plants in Mansfield, Seymour, Ava, Norwood and Mountain Grove; operate as Missouri Electric Power Co.

Mo., Doniphan—Doniphan Hydro-Electric Co. incorporated; R. M. Garner, R. C. Garrison.

Mo., Joplin—Chandeller Shop, 110 W. Sixth St., reported, has contract for white way system, Joplin St. 3-22

Mo., Marshall—City install turbine generator and boiler, enlarge light plant; \$80,000 available. 3-22

Mo., St. Joseph—City, reported, plans \$65,000 Parkway Blvd. lighting system.

Mo., Union Star—Maryville Electric Light & Power Co., Maryville, reported, applied to Missouri Public Service Comm., Jefferson City, for permit to acquire distribution system Union Star Electric Co.

N. C., Asheville—Carolina Power and Light Co., Raleigh, reported, construct 20 mile 110,000 volt transmission, Canton to Asheville, 55 mi. line Canton to Greenville, S. C. 1-12

N. C., Germantown—City, reported, negotiating with Southern Power Co., Charlotte, for power line.

N. C., Marion—Duke Power Co., Charlotte, reported, construct substation near Marion-Rutherforddton Highway; applied for franchise.

N. C., Walnut Cove—Southern Public Utilities Co., Charlotte, acquired electrical distribution system; construct power line. 3-22

N. C., Windsor—Virginia Electric and Power Co., Richmond, reported, negotiating for power plant.

Okla., Thomas—City, reported, ratified sale of light and water plant to Southwestern Light & Power Co., Oklahoma City, Okla. 3-1

S. C., Walhalla—Duke Power Co., Charlotte, N. C., reported, extend line Seneca to Walhalla.

Tenn., Mountain City—Bristol Gas & Electric Co., Bristol, reported, acquired franchise of Boon Creek Electric Co.

Tenn., Nashville—Tennessee Electric Power Co., Chattanooga, reported, construct \$1,000,000 transmission line, supplying power from Muscle Shoals; engineers drafting plans.

Tenn., Sparta—Sparta Electric Light & Power Co., capital \$50,000, incorporated; Dr. W. B. Young, R. L. Hill.

Tex., Burnet—City, reported, let contract to Texas Power & Light Co., Dallas, for street lighting system.

Tex., Fort Worth—Busby Electrical Co., reported, has contract for white way on Grand and Central Sts.; Eugene Ashe Electrical Co., 505 Jones St., for Travis and Capps Sts.

Tex., Leakey—Central Power & Light Co., 1020 Frost Nat'l Bank Bldg., San Antonio, considering installing lighting system; no definite plans.

Tex., Slaton—Texas Utilities Co., subsidiary of Community Power & Light Co., Planters Bldg., St. Louis, Mo., reported, construct 24 mi. \$50,000 power line, Slaton to Tajoka, through Wilson.

Virginia—Stone & Webster and Blodgett, Inc., Blair & Co., Inc., Chase Securities Corp., Brown Brothers & Co., all New York, offering 320,000 shares of \$5 convertible preferred stock of Engineers Public Service Co.; organized under laws of Delaware to acquire and operate public utility properties; holdings include majority common stock of Virginia Electric & Power Co., Key West Electric Co., Eastern Texas Electric Co., El Paso Electric Co., Baton Rouge Electric Co., and Ponce Electric Co.; subsidiaries serve large portion of Tidewater Virginia and northeastern North Carolina, etc.

Va., Richmond—Stockholders, Virginia Electric and Power Co., vote Apr. 18 on increase in 6% cumulative preferred stock of \$5,000,000 and in first and refunding mortgage gold bonds of \$8,000,000.

W. Va., Williamson—Appalachian Electric Power Co., Bluefield, W. Va., reported, completed plans for \$150,000 power plant Kentucky side Tug River; start work soon. 3-22

Flour, Feed and Meal Mills

Okla., Enid—Great Plains Mill & Elevator Co., 223 E. Randolph St., reported, plans erecting 500 bbl. capacity plant.

Okla., Enid—Pillsbury Milling Co., Minneapolis, Minn., erect \$1,000,000 mill and elevator; elevator capacity 1,000,000 bu.; has site 1300x300 ft. intersection of Santa Fe, Rock Island and Frisco R. R.; M. A. Lehman, Gen. Supt. 2-23

Tex., San Angelo—San Angelo Grain Co., W. R. Johnston, Mgr., 12 E. Concho Ave., reported, excavating for \$25,000 building, S. Chadbourne St.; J. W. Fuqua, Contr.

Foundry and Machine Plants

Mo., St. Louis—Spuck Iron & Foundry Co., 14th and Branch St., E. C. Hanpeter, Pres., increased capital, \$25,000 to \$150,000.

S. C., Greenwood—Textile Specialties—Greenwood Lumber Co., Gen. Contr. for rebuilding burned plant Aldrich Machine Works; 40x148 ft., heavy conc. floor, brick walls, steel sash, brick piers, steel trusses, with Robertson metal and asbestos roofing on top; grading under way; Greenville Steel & Foundry Co., Greenville, S. C., furnish steel sash, doors, trusses and roofing. 3-22

Tenn., Nashville—Stoves—Phillips & Buttorff Manufacturing Co., D. W. Bluns, Pres., 14th Ave. and Hamilton St., reported, plans \$50,000 addition, 2-story, rein. concrete and steel; Madison P. Jones, Archt. and Engr., 336 Chesterfield Ave.

Tex., Breckenridge—Breckenridge Foundry & Supply Co., W. S. Slingerup, Pres., Mineral Wells, reported, re-organized, move plant to Breckenridge.

Tex., Corpus Christi—San Antonio Interests, reported, acquired Corpus Christi Foundry & Machine Co., cor. Black and W. Bdwy., to be known as Luckett Foundry & Machine Co., H. L. Luckett, Mgr.; improve.

Tex., Corpus Christi—Corpus Christi Boiler & Machine Works, Inc., chartered; Simon Grossman, 464 Atlantic Ave.

Tex., Houston—Steel Oil Drums—Wackman Welded Ware Co., L. B. Wackman, Pres., main office Seventieth and Victor Sts., St. Louis, Mo., reported, plans \$50,000 factory, port, La. 12-22

Silver and G. H. and S. S. tracks; 1 story, brick, tile and terra cotta.

Gas and Oil Enterprises

Ark., Horatio—Southwestern Gas and Electric Co., Marshall St., Shreveport, La., reported, construct \$3,000,000 steam generating plant on Little River; furnish power to towns in southwestern Arkansas and eastern Oklahoma.

Ark., Pine Bluff—Gulf Refining Co., Port Arthur, Tex., reported, construct gasoline and oil distributing station Fifth Ave. 2-23

Ga., Savannah—G. E. Barrett & Co., Inc., A. C. Allyn & Co., Inc., New York, Frederick Peirce & Co., offering 50,000 shares of first preferred \$6.50 dividend series (without par value) of American Commonwealth Power Corp., Suite 1027, 120 Broadway, New York; company owns all of common stock of Community Power and Light Co., capital stock of Union Gas Utilities, Inc., capital stock of Jacksonville Gas Co., Bangor Gas-Light Co., proposes to acquire all of common stock of Savannah Gas Co., and over 75% of common stock of St. Augustine Gas and Electric Co.; proceeds to be used for payment of stocks.

Ark., Texarkana—Southern Cities Distributing Co., reported, acquired gas franchise.

Ky., Harlan—Fulton and Brugh Oil and Gas Co., capital \$10,000, incorporated; B. H. Fulton, Julian Brugh.

Ky., Henderson—Home Oil & Gas Co., increased capital \$30,000 to \$65,000.

Ky., Marion—Tradewater Oil Co., capital \$25,000, incorporated; M. N. Boston, L. E. Crider.

Ky., Owensboro—Ford Oil Co., incorporated; W. H. Ford, Jacob Theiss.

La., Cedar Grove—See Tex., Marshall.

La., Istrouma, Br. Baton Rouge — B. B. Foreman, Bayou Sara Rd., and C. D. Dugas, reported, interested in natural gas system.

La., Vidalia—City receives bids Apr. 10 for gas distributing plant. See Want Section—Bids Asked.

Miss., Hattiesburg—Southern Oil and Refining Co., Carter Bldg., receives machinery bids about May 1. 3-22

Miss., Yazoo City—Adam H. Davidson, reported, has natural gas franchise, construct pipe line from Vicksburg or Jackson.

Mo., Poplar Bluff—City granted franchise to Missouri Natural Gas Co., Dubuque, Iowa, furnish natural or artificial gas in 2 yrs.

N. C., Asheville—Carolina Power & Light Co., Raleigh, reported, construct \$125,000 gas line, W. Asheville.

N. C., Shelby—C. E. Johnson of Foundation Co., 1339 Drexel Bldg., Chicago, Ill., reported, applied for gas franchise; install system.

Okla., Haleyville—Twin Cities Oil Co. let contract to Booker & Miller, Haleyville, at \$10,000 for three 12,000 gal. tanks and warehouse; The Boardman Co., Maple and Hawk Sts., Oklahoma City; Bruce Rogers Co., 201 S. Sixth St., Ft. Smith, Ark.; Clear Vision Pump Co., Wichita, Kansas, machinery contractors. 2-23

Okla., Muskogee—Ark-Add Oil and Gas Co., capital \$50,000, incorporated; J. F. Blackwood, 1002 E. S Blvd.

Okla., Tulsa—Lenarco Oil Co., capital \$25,000, incorporated; F. C. Hamilton, 3620 S. Peoria St.

Okla., Woodward—City, reported, votes April 23 on ratifying gas franchise to Winchester Oil and Gas Co., Blackwell. 3-22

Tenn., Sunbright—See Clayworking Plants.

Texas—G. E. Barrett & Co., Inc., New York, offering \$2,000,000 first mortgage and collateral 6½% gold bonds, Series A, of South Texas Gas Co., O. R. Seagraves, Pres., Houston, incorporated under laws of Delaware, own and operate 80 miles trunk lines, etc., for transmission of natural gas from Jennings, Carolina-Texas and Cole fields of Texas, produces and distributes gas through 130 miles existing distribution lines in Laredo, Oilton, Miranda City, etc.; proceeds to be used for acquisition of properties, extending pipe lines, etc.

Tex., Austin—Austin Gas Co., reported, extend pipe lines on Deep Eddy Ave., Brazos St., etc.

Tex., Beaumont—Tidewater Gas Co., reported, acquired artificial gas plant, franchise and system of Southwestern Gas and Electric Co., Marshall St., Shreveport, La.

Tex., Beaumont—Dixie Gas Co., Houston, reported, acquired holdings of Southwestern Gas & Electric Co., Marshall St., Shreveport, La. 12-22

Tex., Brenham—J. Butler, Corsicana, reported, construct oil pipe line.

Tex., Fort Worth—Bedwick Oil and Gas Co., incorporated; Mark McGee, First Nat'l Bldg.

Tex., Houston—Electric Oil Co. incorporated; K. C. Barkley, State Nat'l Bk. Bldg.

Tex., Lefors—The Texas Co., Houston, reported, construct natural gasoline plant in Panhandle field.

Tex., Marshall—Dixie Gas and Fuel Co., Houston, reported, acquired gas distributing system at Marshall and Cedar Grove, La.; 74 mi. gas main and 6-in. line Mooringsport, La., to Marshall.

Tex., Mexia—E. L. Smith Oil Co., increased capital \$5,000,000 to \$10,000,000.

Tex., Midland—Atlantic Refining Co., 260 S. Broad St., Philadelphia, Pa., ordered 15 tanks from Chicago Bridge & Iron Works, Chicago, Ill., 117 ft. diam. by 41 ft. high, capacity 50,000 bbls. each.

Tex., Teague—Community Natural Gas Co., subsidiary of Lone Star Gas Co., 1915 Wood St., Dallas, reported, install natural gas system; R. B. Steger, Engr.

Tex., Tlaga—City, reported, granted franchise to Community Natural Gas Co., subsidiary Lone Star Gas Co., 1915 Wood St., Dallas.

Va., Norfolk—Virginia Electric & Power Co., Richmond, reported, soon call for bids for foundation of 3,000,000 cu. ft. gas holder.

W. Va., Charleston—Steer Creek Oil and Gas Co., capital \$100,000, incorporated; John E. Hamilton, 1534 Jackson St.

W. Va., Charleston—United Fuel Gas Co., 1023 Quarrier St., Harry W. Wallace, Pres., reported, expend \$2,500,000 in improvements West Virginia, Kentucky and Ohio.

W. Va., Princeton—Bluefield Gas and Power Co., reported, making survey for gas extensions.

Ice and Cold-Storage Plants

Ala., Anniston—Model City Ice Co., A. Lee Scarborough, Pres., reported, erect 1-story brick building cor. 15th and Walnut Ave.

Fla., Mulberry—Mulberry Ice Works, Inc., chartered; E. H. Dudley, S. L. Holand.

Ga., Buena Vista—Atlantic Ice & Coal Co., Atlanta, reported, plans cold storage plant.

Miss., Waynesboro—Central States Power & Light, 409 Kahl Bldg., Davenport, Iowa, reported, acquired Waynesboro Ice & Light Company and plants in Lucedale, Leakesville, New Augusta and Brandon, Miss., and Citronelle, Ala.

N. C., Greensboro—Greensboro Ice and Fuel Co., Robert H. Frazier, Banner Bldg., reported, acquired site, Prescott St., erect plant.

Okla., Mangum—L. E. Teter, V. P. Williams, reported, erect \$40,000 cold storage plant.

Okla., Oklahoma City—New State Ice Co. (Delaware Corp.), 2 West Third St., offering \$750,000 first mortgage 6% sinking fund gold bonds, series A, through Liberty Central Trust Co., Roanoke, Va.; Smith, Moore & Co., St. Louis, Mo.; use proceeds for purchase of properties of predecessor company; owns and operates 3 manufacturing plants, 2 storage buildings and 29 retail stations.

Tenn., Chattanooga—Chattanooga Ice Delivery Co., capital \$75,000, incorporated; Burnett Sizer, 4605 Alabama Ave.

Tenn., Knoxville—McGinley Produce Co., 706 Western Ave., reported, installing 10 ton capacity cold storage plant. Vetter system, under direction of W. J. Savage Co., 912 Clinch St.

Tex., Corpus Christi—New Nueces Ice Electric Co., incorporated; W. W. Jones, 511 S. Broadway.

Tex., Fairfield—Community Power & Light Co., Mexia, reported, erect 10-ton ice and cold storage plant.

Tex., Port Arthur—Pure Ice Co., incorporated; J. W. Summersgill, 831 Lakeshore Dr.

Va., Pulaski—Central Atlantic Service Corp., 20 Broad St., New York, reported, acquired Hygienic Ice & Cold Storage Co., erect \$100,000 plant. 3-15

Va., Staunton—Central Atlantic States Service Corp., 20 Broad St., New York City, reported, acquired plant of Smith Fuel & Ice Co. and Clem Bros.; probably remodel. 3-15

Iron and Steel Plants

Ala., Birmingham—Sloss-Sheffield Steel & Iron Co., American Trust Bldg., let contract to Semet-Solvay Engineering Corp., 40 Rector St., New York, for 26 stacks of Steere cooling coils, used on gas scrubbers, increasing capacity, stacks to be 40 tubes high, zinc coated by sherardizing to resist corrosion. 2-2

Ky., Ashland—Merger proposed of steel plants in Ashland and Ironton, reported, including \$15,000,000 to \$20,000,000 development program; J. C. Crawford, 122 Claremont Ave., New York, holds option on Bellefonte Steel & Wire Co., Marting Iron & Steel Co., both Ironton; Ashland Steel Co. and Norton Iron Works, both Ashland; also 600 acres of Delta Co., Sheridan.

Land Development

Ala., Huntsville—Monte Sano Construction Co., reported, developing mountain resort.

Ark., Little Rock—Fourche River Land Co., 213½ W. Second St., H. F. Buhler, Pres., developing Home Heights Addition; 25 acres; J. E. Robersten, Constr. Engrs., 1115 W. 7th St.

Ala., Mobile—Jackson Oaks Development Co., capital \$200,000, incorporated; F. W. Boykin, 300 S. Monterey St.

Ark., Paris—Guy Conley, Jr., Geo. M. Bennett, reported, acquired 167 acre apple orchard on Charley Ridge.

Ark., Pine Bluff—Lloyd Garrett, Wabbaseka, reported, acquired 40 acres in township No. 4.

Fla., Fort Lauderdale—Broward Grove & Farm Co., incorporated; Fred Hixson, W. A. Gardner.

Fla., Gainesville—Gainesville Holding Co., capital \$75,000, incorporated; R. J. Kratky, R. J. Albachten.

Fla., Jacksonville—Gregory DePass Co., incorporated; L. T. Gregory, Lutz Realty Bldg.

Fla., Longwood—W. N. Reynolds, Winston-Salem, N. C., advises planning to do no building on 300 acres recently acquired. 3-22

Fla., Miami Beach—City, reported, considering construction 9 hole golf course Flamingo Park.

Fla., Miami—Palmer-Laramore Properties, Inc., chartered; T. W. Palmer, Exchange Bldg.

Fla., Miami—Spetsas Realty Corp., incorporated; E. C. Choate, Huntington Bldg.

Fla., Orlando—Hunt & Davis, Inc., Woolworth Bldg., chartered; L. T. Hunt, J. B. Davis.

Fla., Orlando—Silver Lake Development Co., capital \$50,000, incorporated; W. C. and E. L. Gardner.

Fla., Panama City—High Point Corp. has 2080 acres; developing 200 for club and fruit farms; expend \$25,000. See Want Section—Machinery and Supplies. 3-15

Fla., Tavares—Lake Region Groves Corp., incorporated; J. B. Prevatt, J. C. Merrill.

La., New Orleans—Warriner Farms, Inc., capital \$250,000, incorporated; Alfred L. Warriner, 3505 Prytanla St.

La., New Orleans—Douglas Land Co., incorporated; C. Lee McMillan, Cotton Exchange Bldg.

La., New Orleans—Victoria Acres, Inc., capital \$64,000, incorporated; Paul Stoltz, 423 Carondelet St.

Md., Annapolis—Wm. E. Richardson, Denrike Bldg., Washington, D. C., reported, develop 300 acres north side Severn River opposite Annapolis, golf course and yacht club.

Md., Cumberland—See Miscellaneous Structures—Buildings Proposed.

Md., Hagerstown—Oak Hill Knolls Corp., 104 S. Potomac St., incorporated; Wm. A. Danzer, Frank T. McDonald.

Miss., Derby—Derby Pecan Co., capital \$50,000, incorporated; W. L. Melton, R. W. Park.

Mo., Fredericktown—Edward C. O'Brien & Co., Inc., incorporated.

Mo., Poplar Bluff—Jess Priest, reported, acquired 1680 acres Ripley County, including town of Torch.

Mo., St. Joseph—Bucha-Doni Orchards Co., incorporated; J. D. Wilson, R. F. D. No. 1.

Mo., St. Louis—City Park Comm., reported, plans improving Forest Park; rebuild zoo; \$25,000.

Mo., St. Louis—City Park Comm., reported, expend \$35,000 landscaping and improving Government Hill in Forest Park, build pools,

series of walks, plant 1000 Japanese cherry trees.

N. C., Gastonia—Franklin Realty Co., capital \$100,000, incorporated; R. A. Dickson, South St. extended.

N. C., Charlotte—Stephens Co., 19 W. 4th St., developers of Myers Park, reported, expend \$150,000, developing 50 acres; construct two 70-ft. blvds.

Okla., Tulsa—City, W. O. Doolittle, Supt. Parks, reported, plans \$129,000 park expenditure.

Okla., Tulsa—Carbondale Development Co., capital \$25,000, incorporated; G. J. Ratcliffe, 824 S. Detroit St.

Tenn., Humboldt—South Rose Hill Cemetery Co., incorporated; T. C. Ferrell, Sr., C. J. Hunt.

Tenn., Nashville—Clinton Realty Co. incorporated; Morris Werthan, Belle Meade Dr.

Texas—F. Z. Bishop, Bishop, developing for colonization 64,000 acres land adjoining towns of Pearsall and Melon in Frio county; expend \$2,000,000 to clear land of heavy brush and timber; 100 acres will be used for park.

Tex., Austin—City votes about May 15 on park and playground bonds. See Financial News.

Tex., Celina—City, reported, develop park.

Tex., Georgetown—City, reported, develop 2 parks.

Tex., Houston—C. O. Fortinbury, reported, develop subdivision Gulf and Pierce Sts.

Tex., Houston—Houston Industrial Development Co., Hanan Brothers, incorporators, Esperson Bldg., reported, develop 2250 acres on Market St. Rd.; W. L. Jones, contr., 5000 Terry St., for grading and shelling 10 mi. streets.

Tex., San Benito—Malott Realty Co. increased capital.

Va., Portsmouth—Commercial Properties, Inc., chartered; W. J. Crocker, Jr., 300 North St.

Va., Roanoke—B. S. Bibb & Co., Inc., capital \$25,000, incorporated; S. L. Fellers, Am. Nat'l Bk. Bldg.

W. Va., Clarksburg—Bell Development Co., capital \$10,000, incorporated; Benj. B. Jarvis, 127 W. Main St.

W. Va., Huntington—Court Land Co. incorporated; J. E. Duncan, 1318½ Fourth St.

Lumber Enterprises

Ala., Piedmont—Booser Lumber Co., D. M. Booser, Anniston, reported, acquired 524 acres timber; develop.

Ark., Pine Bluff—Long-Bell Lumber Co., W. Seventh St., J. M. Sowards, Gen. Mgr., reported, plans \$50,000 addition.

Georgia—Reynolds & Manley Lumber Co., Hopkins St., Savannah, reported, acquired 9000 acres timber land, Long and Liberty Counties; G. S. Dellinger, Shelby, N. C., purchased the pine; install sawmills, planing mill, dry kilns, etc.

La., Alexandria—Rockwell-Powers Lumber Co., Inc., chartered; C. B. Rockwell, John T. Powers, Jr.

La., Shreveport—Mich-La Lumber Industries, Inc., capital \$300,000, chartered, Charles Dreege, Pres.; E. A. Frost, V. Pres., Commercial Bk. Bldg. reported, establish plant.

Miss., McComb—McComb Lumber and Coal Co., capital \$50,000, incorporated; Geo. C. Hamilton, X. A. Kramer.

N. C., Goldsboro—Moore Dry Kiln Co., Jacksonville, Fla., reported, has contract for kilns at plant A. T. Griffin Manufacturing Co.

N. C., Winston-Salem—Boyles Building Co., Inc., 421½ N. Trade St., N. S. Mullican, Pres., establish retail lumber business, erecting lumber sheds.

Tenn., Memphis—Mississippi River Lumber Co., capital \$25,000, incorporated; Walter Chandler, Columbian Mutual Tr. Bldg.

Tenn., Memphis—Coulson & Bradley Co., Cotton Exchange Bldg., reported, formed by merger Bradley Lumber Co. and Coulson Lumber Co., capital \$100,000, Nathan and C. F. Bradley, H. L. Coulson.

Tex., Florida—Floyd County Lumber Co., changed name to South Plains Lumber Co., increased capital, \$125,000 to \$200,000.

Tex., Houston—West End Lumber Co., incorporated, R. W. Peckham, Public Nat'l Bk. Bldg.

Metal-Working Plants

Ala., Birmingham—Wire Products—L. A. Young Spring & Wire Corp., 9200 Russell St., Detroit, Mich., L. A. Young, Pres., offer-

ing 75,000 shares convertible preferred stock (without par value) through Prince & Whitely, New York; Baker, Simonds & Co., Detroit, Mich.; Mackubin, Goodrich & Co., Baltimore, Md.; to purchase part of interest of present stockholders; has factories in Birmingham, Dallas, Tex.; Oakland, Cal.; Windsor, Canada; Detroit, Mich.; Chicago, Ill.; Philadelphia and Pittsburgh, Pa.

Mining

Alabama—Alabama Quenalda Graphite Co., W. L. Shumate, Pres., Comer Bldg., Birmingham, merging several graphite companies in Clay County; now has 2050 acres and negotiating for 1200 more; reported, begin operations 30 to 60 days. 9-15

Ky., Middlesboro—Commodore Jellico Mining Co. incorporated; F. D. Hart, Jr., Frank Earl.

Mo., Kansas City—Western Salt Co., Bevis Longstreth, Pres., Manufacturers Exchange Bldg., reported, merged with Diamond Crystal Salt Co., St. Clair, Mich.

Tenn., Columbia—Armour Fertilizer Co., Joseph A. Chapman, Mgr., reported, plans mine improvements, Williamsport pike.

Va., Midvale—Midvale Manganese Co. (Wilmington, Del. Corp.) purchased Rockbridge Manganese & Iron Co. property; Marshall Haney, Mining Engr., Greer, Va., directing operations. See Want Section—Machinery and Supplies.

Miscellaneous Construction

Fla., Miami Beach—Jetties—Allotment of \$183,000 by Federal Government, reported, for revetment work, repairs and extending north and south jetties. 2-29

Ky., Louisville—Bd. of Public Works, reported, let contract to Henry Bickel Co., 443 Garden St., at \$117,000 for incinerator for West End, workhouse property. 2-23

La., Lake Charles—Thrall & Shea, 314 Pujos St., Lake Charles, reported, has contract for rein. conc. retaining wall for public wharf, 1638-ft. for Lake Charles Harbor and Terminal Comn.; \$12,000. 3-1

La., New Orleans—T. Semmes Walmeys, Commr. Public Finance, interested in construction 3 garbage incinerators, \$1,200,000; specifications drawn.

La., Pointe a la Hache—Plaquemines Parish Police Jury, R. S. Leovy, Pres., reported, approved construction Missouri Improvement & Plaquemines Parish Wharves, Docks & Shipping Terminals, Inc., \$3,000,000 ship terminal on west bank Mississippi river, below New Orleans; project probably for Missouri-Pacific Lines.

Missouri—Following contracts awarded for work on Missouri river, U. S. Engr. Office, Postal Telegraph Bldg., Kansas City: Woods Bros. Construction Co., Lincoln, Neb., \$117,028 for Jacksoms Bend, right bank, mile 366, 4400 ft. of 3 row clump dike; at \$99,019 for Jacksoms Bend, right bank, mile 355, 3000 ft. of 3 row clump dike; at \$90,648 for Baltimore Bend, left bank, mile 309, 3000 ft. of row clump dike; Massman construction Co., Kansas City, at \$118,181, Berlin Bend, left bank, mile 312, 4000 ft. of 3 row clump dike; Bilhorn, Bower & Peters, Inc., Ry. Ex. Bldg., St. Louis, Mo., at \$65,376, Hinkles Bend, right bank, mile 61, 4000 ft., 3 row clump dike. 1-26

Mo., St. Louis—Crematory & Mausoleum Co., incorporated; Robt. J. Guthrie, A. Ramel, 5146 Enright St.; Walter Diehm.

N. C., Raleigh—Racetrack—Wm. S. Moye, Sec.-Mgr., N. Carolina State Fair, receive bids Apr. 4 for racetrack, State Fair Grounds; 40,000 cu. yds. excavation, 260 ft. 30-in. pipe, rein. conc. pipe, laying and appurtenances; C. L. Mann, Engr.

Tex., Corpus Christi—Bayfront Improvement Committee has plans by Gutzon Borglum, Sculptor, for bayfront improvement work; proposed building 10,000 ft., of conc. wall entire length city, from ship channel to South Bluff section, 5 ft. 6 in. above high tide; install 200 ornamental lamp posts; \$1,100,000; P. G. Lovenskold, Mayor. 2-23

Tex., Fort Worth—Subway—City Council, reported, approved plans Texas & Pacific Ry. Co., Dallas, for proposed subways at S. Main, Jennings Ave., Henderson, Hemphill to Taylor and Lamar, Tennessee and Pine, Riverside and Madstone St.; \$2,250,000. 1-19

Va., Richmond—War Memorial Comn., Gen. C. C. Vaughan, Jr., Chrmn., Franklin, Va., plans soon begin work on Carillon Tower (60 bells) erected by State as war memorial; appropriation provided by General Assembly of Va. will be available in about 90 days; \$325,000; Cram & Ferguson, Archts., Boston, Mass.

W. Va., Wheeling—Wheeling Landscape

Comn., H. P. Corcoran, Sec., 94 14th St., has \$50,000 available for beautification of city and its approaches.

Miscellaneous Enterprises

Ala., Anniston—Anniston Roller Covering Works, W. L. Moss, Mgr., reported, plans expanding plant, cover spinning rolls for textile plants.

Ala., Mobile—City Comn., reported, let contracts: Ahrens Fox Fire Engine Co., Cincinnati, Ohio, 750 gal. triple combination pump; Mack International Motor Truck Corp., Allentown, Pa., 150 h. p. hook and ladder service truck, equipped with 750 gal. pump, etc.; Seagraves Corp., Columbus, Ohio, combination service ladder and truck, 750 gal. pump, etc. 2-9

Ala., Mobile—Southern Linen Supply Corp., Atlanta, Ga., reported, let contract to R. E. Saunberg Construction Co., St. Louis St., for erecting plant St. Francis and Lawrence Sts., 1-story, 50x108-ft., brick, \$75,000.

Ala., Tuscaloosa—Tuscaloosa Packing Co., G. E. Morgan, Pres., reported, let contract to Skinner & Maxwell for \$21,000 building, 2-story, 85x120-ft., brick, rein. conc. and steel, refrigeration capacity 30 tons; be in operation July 15; Henschlen & McLaren, Archts., 1637 Prairie Ave., Chicago, Ill.

Arkansas—Grisham Ice Cream Co., Ben Grisham, Owner, Searcy, reported, acquired plants of Dixie Creamery Corp. in Pine Bluff, McGehee and Camden; also plans milk station at Magnolia. 3-15

Ark., Blytheville—Barnes Dairy Products Co., reported, plans enlarging.

Ark., Conway—Armond Meyers and Kenneth Lasswell, Little Rock, reported, acquired Conway Times, will operate.

Ark., Eudora—E. Gilbert, reported, plans establishing laundry.

Ark., Magnolia—Banner-News Publishing Co., capital \$15,000, incorporated; F. B. Turner, J. O. Hutcheson.

Ark., Port Smith—Acme Spring Bed & Mattress Co., 1401 N. 1st St., reported, let contract to John R. Murphy, 1504 S. P. St., for erecting mattress factory and offices, including plumbing and wiring; \$10,000; receiving bids on sprinkler system.

Fla., Jacksonville—Cigars—John H. Swisher & Son, Inc., Newark, Ohio, reported, plans moving plant daily capacity 500,000 cigars to Florida.

Fla., Sanford—Sanford Try Me Bottling Co. incorporated; Peter Scott, Harry Zeigler, M. J. Beardsley.

Fla., Tampa—Brown Electric Works, Inc., capital \$100,000, chartered; J. L. Brown, 4801 Lynn Ave.

Fla., Tampa—A. Gutierrez, 322 W. 96th St., New York, reported, plans cigar factory in building formerly occupied by Demmi Cigar Co.

Fla., Tampa—U. S. Phosphoric Products Corp., 61 Broadway, New York, plans installing plant for manufacture gypsum plaster and gypsum block; has supply of raw material derived as by-product from manufacture of triple superphosphate, a fertilizer material, present daily capacity of synthetic gypsum about 500 tons; U. S. Phosphoric Products Corp. is subsidiary of Tennessee Copper & Chemical Corp., New York which took over Tampa plant of U. S. Export Chemical Co. about year ago; new plant will be steel building, 80x150-ft. long, with about 40-ft. inside clearance; equipment includes 1000-ton steel storage bins, electric cranes, rotary drier, calciners, block machines, bagging equipment, etc.

Ga., Atlanta—White Provision Co., Howell Mill Rd., reported, plans erecting city delivery unit, Hunter St., acquired 50x100-ft site.

Ga., Atlanta—Commercial Refrigerators—The Warren Co., Inc., 905 Fair St., S. E., Virgil P. Warren, Pres., offering \$300,000 first closed mortgage 7% sinking fund gold bonds through Courts & Co., Hurt Bldg., Atlanta, and 321 Macon Nat'l. Bk. Bldg., Macon; proceeds to clear property of all liens, to fund present indebtedness and to supply additional working capital; owns over 2,000,000 ft. standing timber, Laurens County, plant is complete unit operating own sawmill, power plant, brass foundry, electro nickel plating and galvanizing plant, glass and mirror plant, paint and machine shop, all electrically driven.

Ky., Ashland—Smokeless Powder, etc.—King Powder Co., First Natl. Bank Bldg., Cincinnati, Ohio, reported, erecting "Pellet" plant; acquired 56 acres land. 3-15

Ky., Louisville—Automatic Advertising Co.

incorporated; B. W. Taylor, Jr., 2200 Longest St.

Ky., Louisville—The Axton-Fisher Tobacco Co., W. F. Axton, Pres., 811 S. 20th St., offering 50,000 shares class "A" common stock through E. E. MacCrone & Co., Detroit; Eastman, Dillon & Co., New York; Henning Chambers & Co.; Almadest Brothers, E. W. Hays & Co., W. H. Koppleman & Co., all Louisville; in addition to line chewing and smoking tobaccos, manufacturers Clown and Spud cigarettes. 3-15

Ky., Louisville—City Builders Supply Co., 839 S. 18th St., increased capital, \$25,000 to \$50,000.

Ky., Louisville—Peerless Printing & Specialty Co., incorporated; Howard Fogg, G. M. Klaus, 715 Shelby Pkwy., Geo. M. Bennett.

Ky., Louisville—Armstrong-Williams Construction Co., capital \$60,000, W. G. Armstrong, 2108 Lyons St.

Louisiana—South Coast Co., subsidiary of Celotex Co., 645 Michigan Ave., Chicago, Ill., offering \$1,250,000 first mortgage 6½% sinking fund gold bonds through Hayden, Van Atter & Co., at 100 and accrued interest; Company owns and operates sugar plantations and sugar factories in Louisiana valued at more than \$5,000,000.

La., Baton Rouge—New York Cleaners & Dyers, Inc., chartered; Fred Frank, 561 Lafayette St.

La., Baton Rouge—Wm. Wolf Bakery, Inc., reported let contract to A. C. Stewart, 810 E. Blvd. for bakery, 2-story, brick and steel. 3-22

La., Baton Rouge—Barber Brothers Construction Co., Inc., chartered; W. H. Ragland, Pres., Salisbury, N. C.; Robt. T. Barber, Baton Rouge.

La., Eunice—New Era Publishing Co. Inc., reported, acquired Johnson's Printing Office, operate.

La., New Orleans—Lafourche Starch & Refining Co., Inc., capital \$50,000, chartered; Alfred L. Warriner, 3505 Prytanis St.

La., New Orleans—G. H. W. Cleaners & Dyers, Inc., chartered; Chas. M. Lepow, 2202 Peters Ave.

La., New Orleans—United Cleaners & Dyers, Inc., chartered; W. J. Deluzain, 4340 Cleveland St.

La., Shreveport—Oxygen-Linde Air Products Co., and Prest-O-Lite Co., units of Union Carbide and Carbon Corp., 30 E. 42d St., New York, reported, plans \$50,000 factory at Agurs; brick, rein. conc. and steel.

Md., Baltimore—Potato Products—King & Co., 409 Exchange Pl., reported, leased factory building, 305 E. Federal St.

Md., Baltimore—Consolidated Electrical Appliances Co., R. L. Gilbert, Sec., Pratt and Concord St., reported, acquired plant of Liberty Yeast Corp., O'Donnell St.

Md., Baltimore—Oil Seed Crushing Corp. acquired Maryland Vegetable Oil Corp., originally known as Coconut Products Corp., 15th St. and 7th Ave., Canton; M. C. Jones, head of operation.

Miss., Biloxi—Peoples Laundry, Inc., chartered; Frank J. Raymond, H. L. Breland, John F. Peppard.

Miss., Indianola—Delta Milk Products Co., reported, let contract to Creamery Package Manufacturing Co., 1243 W. Washington Blvd., Chicago, Ill., for erecting plant. 11-24

Miss., Gulfport—Mississippi Coast Exposition Park, capital \$2,000,000, chartered; Wm. E. Golden, 5351 W. Adams St., Chicago, Ill.; Wm. J. Hastings, Biloxi.

Miss., Jackson—Mississippi Stationary Co., incorporated; W. I. Dement, W. O. W. Bldg.

Miss., Jackson—Gulf States Cresoting Co., Inc., Hattiesburg, increased capital to \$500,000. 9-8

Miss., Jackson—C. C. Smith, Lamar Bldg., and Associates, reported, erect 2-story building cor. Mill and Griffith St. for Holiday Life Saving Head Light Co., T. C. Holliday, Pres., Edwards Hotel Bldg.; manufacture automatic hydraulic curve light.

Miss., Laurel—Dixie Candy Co., incorporated; D. J. Corum, 1130 Seventh Ave.

Miss., Meridian—Meridian Mattress Factory, Inc., 200 Rubush Ave., capital \$500,000, chartered; E. H. and L. L. Crudup.

Mo., Cape Girardeau—Golden Grain Butter Co. incorporated; T. C. Eugas, W. P. Whitledge.

Mo., Kansas City—Empire Cap Manufacturing Co., 908 Broadway, increase capital.

Mo., Kansas City—Crawford Engineering Co., capital \$25,000, incorporated; Fay W. Crawford, 907 E. 30th St.

Mo., Kansas City—Midwest Envelope Co.,

817 Broadway, increased capital, \$30,000 to \$75,000.

Mo., Kansas City—Missouri Mystic Iceless Refrigerator Co., incorporated; R. W. Fifer, 3730 Wabash Ave., Kansas City; G. I. Coons, J. B. Pike, both Shelby.

Mo., Kansas City—Haskins Compressed Air Painting Co. incorporated; H. D. Haskins, 1303 Commerce Bldg.

Mo., Kansas City—Smoke Abater Equipment Co., 1416 Oak St., chartered; J. F. Keller.

Mo., Kirksville—General Manufacturing—Midwest Fixture Co., chartered; Karl H. and Iva O. Whitney, L. F. McManis.

Mo., Moberly—City, reported, plans \$10,000 bond issue for bathing beach and play grounds; G. F. Rothwell, City. Clk.

Mo., Poplar Bluff—Swift & Co., Chicago, Ill., reported, plans establishing branch produce house and cheese factory.

Mo., St. Joseph—Stewart Inso Board Co., A. D. Stewart, Pres., Lake Rd., adding to main factory building extension 600x40 ft., erecting warehouse 60x200 ft., 3 story, 50x70 ft., addition to rotary house; steel; \$200,000; work under supervision of A. G. Gibson, company engr.; steel work, St. Joseph Structural Steel Co., Ninth and Athison Sts.

Mo., St. Louis—Restoration Publishing Co., Inc., chartered; C. C. Crawford, 4408 Florissant St.

Mo., St. Louis—Crescent Engineering Co., 2644 Lafayette Ave., incorporated; Edward Schulz, 4446 Ellenwood St.

Mo., St. Louis—Midwest Rubber Reclaiming Co., Wm. Welch, Pres., open bids April 1 for constructing \$150,000 plant, Monsanto village, industrial section St. Louis; main building 90x500 ft., power house and smaller buildings not determined; brick, conc. floors; install two 350 h.p. boilers; complete reclaiming machinery including refiners, dryers, washers, motors, etc., prices submitted; address proposals to S. G. Luther, Mgr., Akron Rubber Rec. Co., Barberton, Ohio. 3-15

Mo., St. Louis—Davis Boring Tool Co., incorporated; John J. Larkin, 615 N. 24th St.

Mo., St. Louis—Swinging Safety Scaffolds, etc.—Hornbeck & Hardie Electric Co., 314 Market St., reported, leased building 21-23 S. 11th St., remodel.

Mo., St. Louis—Heating Equipment, etc.—Willis W. Howe Co., Inc., 554 Limit St., chartered; Willis W. and Cecil C. Howe, R. D. Albee.

N. C., Kinston—Vinegar, etc.—Magnolia Products Corp., capital \$100,000, incorporated; L. J. and Leslie Dawson, J. A. Winfield.

N. C., Swannanoa—McRae Furniture Co., Inc., capital \$100,000, chartered; W. H. McRae, H. R. Shipley.

N. C., Washington—Frank A. Pierson, Daytona Beach, Fla., reported, acquired Washington Daily News.

Okla., Chickasha—City, reported, votes April 3 on \$20,000 fire equipment bonds. See Financial News.

Okla., Oklahoma City—National Industrial Laboratories, Inc., O. A. Bassett, Pres., Concord Bldg., reported, plans establishing \$25,000 plant for production of brass processed steel pipe.

Okla., Ponca City—Home Laundry Co., 400 S. 3rd St., erect 60x140-ft. plant, brick, asbestos roof, \$20,000. 3-15

Okla., Tulsa—Braden Steel Corp., capital \$200,000, chartered; R. H. Bartlett, 216 W. 19th St.

Okla., Tulsa—Sun Grocery Co., 110 S. Elgin St., offering \$200,000 7% cumulative preferred stock, guaranteed by Tulsa Trust Co.; proceeds to liquidate current liabilities and expand business.

S. C., Allendale—Allendale Bottling Co. incorporated; H. S. and E. E. Jordan.

S. C., Greenville—C. Zaglin, 13 W. Coffee St., reported, plans \$20,000 abattoir, Greenville-Piedmont Rd.

S. C., Spartanburg—Candies, Cakes, etc.—Lady Carolina Cakes, Inc., chartered; J. J. Cudd, 173 Oakland Ave.

Tenn., Chattanooga—Platext Laboratories, Inc., chartered; Fred. A. Hahn, 300 S. Crest Rd.

Tenn., Chattanooga—Building Materials—Hibbler-Barnes Co., 710 E. Tenth St., Robert Hibbler, Pres., reported, plans \$200,000 improvements in 1928.

Tenn., Columbia—Tuf-Nut Garment Manufacturing Co., R. A. Nelson, Pres., 407 Colonial St., Little Rock, Ark., reported, acquired Volunteer Manufacturing Co.'s plant, establish branch.

Tenn., Hollywood, Br. Memphis—Union

Carbide and Carbon Co., 30 E. 42d St., New York, reported, plans 2-story plant, conc. and brick, built-up roof, steel sash, plumbing, electric wiring, etc.

Tenn., Knoxville—Southern Extract Co., Johnson St., reported, has permit for plant addition.

Tenn., Memphis—Chase Bag Co., Lauderdale St., Lawson D. Falls, Treas., reported, will occupy building to be erected Trigg Ave., brick, conc. and steel on 155x350-ft. site; daylight type, sawtooth roof; equip with cafeteria, hospital, etc.; \$100,000; Joe T. Wallace, Archt., Bk. of Commerce Bldg., soon award contract.

Tenn., Memphis—City, reported, plans purchasing additional street cleaning equipment, etc. Address City Clk.

Tenn., Memphis—Joe. N. Rice, Covington, Ky., reported, establish \$100,000 packing plant, daily killing capacity 600 cattle, 600 hogs.

Tenn., Nashville—Dobson-Cannon Co., 4 Cummings St., reported, acquired Southern Bakery Equipment and Supply Co., 112 Bdwy., operate.

Tenn., Union City—Union Dairy Co., J. R. Newberry, Sec.-Mgr., building 2-story, 60x75-ft. plant; brick, asbestos shingle roof, construction by owner; install \$10,000 equipment, furnished by Creamery Package Mfg. Co., 1243 W. Washington Blvd., Chicago, Ill.; John W. Ladd Co., Lafayette Blvd. and Vermont, Detroit, Mich.

Tex., Austin—Printing—A. C. Baldwin & Sons, 4th and Congress Sts., erect 50x128-ft. conc. and brick, sawtooth roof; \$20,000 to \$25,000; C. H. Page & Bro., Archts., Austin Nat'l Bk. Bldg. 3-15

Tex., Austin—City, reported, plans expanding \$75,000 municipal abattoir. See Financial News. 3-8

Tex., Bartlett—E. C. Sontag and associates interested in establishing cheese factory.

Tex., Brownsville—International Drug Co., reported, received low bid at \$15,778 for 1-story, 98x120-ft. building, brick, wood joist; Wm. D. VanSiclen, Archt.

Tex., Houston—Lewis & West, reported, has permit for \$10,000 laundry building, Holman addition.

Tex., Houston—Pace Construction Co., capital \$25,000, incorporated; W. B. Marshall, 702 Woodland St.

Tex., Lampasas—Chamber of Commerce, Claude Strickland, Chrmn., Industrial Comm., interested in having outside parties establish wool scouring and yarn mill.

Tex., San Angelo—Model Steam Laundry Co., reported, let contract to Clem Anderson Construction Co., at \$26,000, for 1-story, 75x205-ft. laundry building; conc. and brick, stucco, cast stone, monitor roof, steel sash. \$50,000 machinery not purchased; Roy K. Hamblin, Archt. 3-15

Tex., San Antonio—San Antonio Tanning Co., S. L. Gill, Pres., 110 E. Hursache St., reported, let contract to Walsh & Burney, 928 N. Flores St., for fireproof building, townsite Fratt; 80x175 ft., brick walls, conc. floor and frame, steel trusses, \$100,000; Lilly-Drought, Engrs., Bldrs. Ex. Bldg. 3-15

Tex., San Antonio—San Antonio Trunk Co., capital \$20,000, incorporated; W. H. Arlitt, 2206 S. Presa St., Kirk Seabury.

Tex., San Antonio—Oxygen, etc.—Linde Air Products Co. of Texas and Prest-O-Lite Co., Inc., units of Union Carbide & Carbon Corp., 30 E. 42nd St., New York, reported, erect factories on Cassiano St.; conc., brick and steel. R. N. Shepard, Asst. Engr. of Const., advises negotiations are under way for new plant for Linde Air Products Co.; practically all equipment has been taken care of and portion is manufactured in own plant at Buffalo.

Tex., St. Joe—Southern Utilities Co., incorporated; C. J. Moore, M. H. Smith, James R. Wiley.

Tex., San Antonio—San Antonio Broom Mfg. Co., Inc., 1401 W. French St., reported, plans 1-story, 40x140-ft. plant, cor. Tampico and Canal St., fireproof; Will N. Noonan, Archt., Builders Exchange Bldg.

Tex., San Marcos—Hayes County Farmers Dairy Products Co., Waters St., reported, receiving bids for creamery building; David D. Donaldson, Archt.

Tex., Sonora—Sonora Construction Co., incorporated; W. L. and Roy Aldwell.

Tex., Waco—Hicks Rubber Co., capital \$50,000, incorporated; E. A. Hicks, 2522 N. 20th St.

Tex., Waskan—Abney Building Co. incorporated; Cary M. Abney, M. M. O'Banion.

Va., Alexandria—Pan-American Road Builders & Construction Corp., capital \$50,

000, chartered; Charles H. and William C. Smith.

Va., Charlottesville—F. A. Wrench, Richmond, reported, launched drive to enlarge and equip Virginia Workshop for Blind.

Va., Cumberland—Cumberland Cheese Co., Inc., Wm. M. Smith, Pres., will erect 20x40-ft. plant; frame, tin roof; install equipment. See Want Section—Machinery and Supplies.

Va., Harrisonburg—Medicines, etc.—Custer Chemical Corp., chartered; C. E. Custer, P. A. Carver, S. P. Fletcher.

Va., Hopewell—The Virginia Cellulose Co., Inc., P. B. Stull, Pres., subsidiary of Hercules Powder Co., Wilmington, Del., erecting \$150,000 boiler plant; engineering by company forces. 3-22

Va., Richmond—Cameron Stove Co., Inc., 2100 Decatur St., Rives Fleming, Pres., increased capital, \$145,000 to \$350,000.

W. Va., Clarksburg—Builders Supply & Equipment Co., incorporated; F. D. McEnteer, 301 Concord St.

Motor Bus Lines and Terminals

Ala., Eufaula—O. L. Harrison applied for permit to operate bus line between Eufaula and Enterprise.

Fla., Tampa—Merchants Express, Inc., chartered; L. C. Vandiver, Cargyle Inn.

Ky., Owensboro—A. A. Nichols, Louisville, reported, establish Louisville & Owensboro Motor Express Co., E. Fourth St.

La., Shreveport—Tri-State Transit Co. of La., Inc., capital \$258,250, chartered; W. H. Johnson, 744 Wilkenson St.

N. C., Charlotte—Southern Coach Co., Library Pl., Greensboro, reported, purchased franchise of Bass Bus Line operating between Charlotte and Rick Hill, S. C.

Okla., Tulsa—Rapid Auto Transit Co., 117 S. Lansing St., reported, has permit to operate bus line to Joplin, Mo.

Tex., Fort Worth—West Texas Coaches, Inc., 108 W. Front St., R. C. Bowen, Pres., reported, applied Div. of Railroad Comm. to extend line Fort Worth to Dallas and establish new line (by its subsidiary Texas-Okla-homa Coaches) Dallas to Tulsa, Okla.

Tex., San Antonio—Union Truck & Transportation Co. incorporated; L. W. Eldridge, M. H. Hoffman, 110 E. Guenther St.

Va., Richmond—Allen Transfer Co., reported, operate freight bus service between Richmond and Hopewell.

Motor Cars, Garages, Filling Stations

Ark., Blytheville—Phillips Motor Co., Russell Phillips, Owner, receiving bids 1-story brick addition.

Ark., Blytheville—T. W. Jackson, reported, let contract to White Bros. for service and battery station; 1 story, brick, comp. and tile roof.

Ark., DeWitt—O. R. Elliott, reported, erect 1-story filling station, brick and stucco; install pumps, office equipment, etc.

Ark., Fort Smith—General Tire & Rubber Co., Akron, Ohio, reported, let contract to O'Neal & Drake, 613 N. 13th St.; remodel service station.

D. C., Washington—Lehman Tire Shop, 923 H St., N. W., reported, has permit for \$18,000 tire and gasoline station, cor. 12th and K Sts., 2 story.

Fla., Jacksonville—Gold Star Service Co., Inc., chartered; W. P. Howard, 297 Belvedere Ave.

Fla., Tampa—General Motors Corp., Detroit, Mich., reported, plans establishing assembly plant to supply export trade in South America.

Fla., Zephyrhills—Pep-O-Gas & Oil Co., incorporated; J. J. Wrinn, B. A. Thomas, H. D. Abbott.

Ga., Waycross—Scott T. Beaton, reported, let contract to D. W. Morgan for 50x160-ft. building, Haines Ave. and Jenkins St., portion for automobile sales room, \$25,000.

La., Alexandria—Gremillion Bros. have contract for 1-story, 195x213-ft. garage for John H. Overton and John E. Thorsell; brick, comp. roof, tile and conc. floor.

La., Luling—W. Herbert Motor Co., Inc., chartered; Walter Herbert, Edw. J. Prejean.

La., Mansfield—Hugh Robertson Motor Co., Inc., chartered; Hugh Robertson, C. T. Ruffin.

La., New Orleans—Ahrens Motor, Inc., chartered; F. H. Ahrens, 2900 Prytania St. Miss., Gulfport—Nevers-Keys Motor Co. in-

corporated; J. R. and P. J. Nevers, B. F. Keys.

Miss., Gulfport—Hart Motor Co., capital \$25,000, incorporated; G. F. and James W. Hart, Sunday Hook, Miss.

Miss., Gulfport—Coast Chevrolet Co., \$25,000, incorporated; W. L. Wilcox, J. L. Porter, J. W. Milner.

Mo., Farmington—Donze Motor Truck Co. incorporated; Oscar V. Donze, L. H. Williams.

Mo., North Kansas City, Br. Kansas City—Barnard Motors, 3026 McGee Rd., let contract to W. T. Miller for salesroom and filling station; brick, glazed tile, asphalt roof, \$15,000. 3-22

N. C., Charlotte—City let contract to Southeastern Construction Co., 210 W. Second St., at \$64,940, for municipal garage, Seigle Ave.; 1-story, 300x100 ft., steel columns, beam trusses, roof deck, brick curtain walls and foundations, built-up over Celotex roof; C. C. Hook, Archt., Commercial Bk. Bldg. 3-15

N. C., Greensboro—Coppes Motors, Inc., capital \$50,000, chartered; H. L. Coppes, Greensboro; Albert Elton, Winston-Salem.

N. C., Wilmington—Garage—John R. Hanby, 230 N. Front St., reported, acquired M. C. Borst & Co.

N. C., Winston-Salem—Elton Motors, Inc., capital \$100,000, chartered; Albert and Rose D. Elton, J. T. Ferebee.

Okl., Hugo—Blakeney-Walker Motor Co., capital \$20,000, incorporated; G. H. Blakeney, Dean F. Walker.

S. C., Fountain Inn—Automobiles—W. F. Mauldin Co., incorporated.

S. C., Sumter—Williams Auto Supply Co., incorporated; B. T. and J. J. Williams, R. S. Hood.

Tenn., Knoxville—Emory Construction Co., Empire Bldg., reported, low bidder at \$74,300 for municipal garage and storage building, office and repair shop; capacity 60 cars; install traveling crane; W. W. Mynatt, Dir. Public Service. 2-9

Tenn., Memphis—Hi-Lo Service Station, Inc., chartered; C. B. Frazer, 375 Avalon St.

Tenn., Union City—Berry Bros., E. Main St., reported, let contract to McAdoo Const. Co., for service station and repair shop, 50x50 ft. and 35x50 ft., stucco.

Tex., Abilene—Abilene Hotel Co., W. G. Swenson, Pres., reported, plans \$125,000 garage and store; 2-story, 140x200 ft., brick, tile and rein. conc., cast stone trim, steel sash; rein. conc. steel or bar joist; Davis S. Castle Co., Alexander Bldg., Archt.

Tex., Brady—W. M. Harrison & Son, low bidder at \$19,600 for erecting garage and display building, 95x120 ft., rein. conc., brick and steel; B. W. Spillman and B. W. Spillman, Jr., Archts., Engrs., Alamo Bank Bldg. 3-15

Tex., Marshall—Davis-Nash Co., capital \$15,000, incorporated; T. C. and J. M. Davis.

Tex., Pampa—Blair Motor Co., capital \$15,000, incorporated; E. W. Blair, Guy E. Hoover, J. R. Cullum.

Tex., San Antonio—United Service Auto Assn., 1400 Grayson St., reported, receiving bids for 1-story, 86x65-ft. building, rein. conc., tile and brick; wiring and heating under separate contract; Adams & Adams, Archt., 1010 Real Estate Bldg.; Homer M. Matthews, Engr., 405 Bedell Bldg.

Tex., San Antonio—Humble Oil & Refining Co., Houston, reported, plans erecting 8 stations; fireproof.

Tex., Temple—Dr. J. S. McCelvey, reported, erect \$15,000 garage; A. W. Fowlkes, Bldr.; John R. Parker, Lessee.

Tex., Uvalde—Jake Schwartz receiving bids for 1-story, 60x120-ft. garage, brick walls, steel trusses, cement floor, galv. iron roof; Jake Schwartz and A. F. Smyth, Owners; Will N. Noonan Co., Archt., Builders Exchange Bldg., San Antonio. 3-22

Va., Norfolk—City Council, reported, plans erecting \$75,000 municipal garage and stables, Ninth and Bank St. See Financial News.

Va., Reedville—Automobile Accessories—R. B. Moore, Inc., capital \$25,000, chartered; R. B. and Leah R. Moore.

Va., Richmond—Firestone Tire & Rubber Co., Akron, Ohio, reported, plans erecting \$250,000 building, cor. Lombardy and Broad Sts.; fireproof; plans being prepared at Akron; L. E. Keppel, branch Mgr. Use for warehouse and branch, 2-story; Henry Partridge, branch Engineering-Developing Dept., Firestone Tire & Rubber Co., Akron.

Railways

Mo., Allenton—Laclede Steel Co., Arcade Bldg., reported, furnish 400 tons steel for track construction work between Allenton and Boles for Missouri Pacific R. R. Co., E. A. Headley, Ch. Engr., St. Louis, Mo.

Oklahoma—Beaver, Meade & Englewood R. R. Co., J. Achenbach, Pres., Hardtner, Kan., general office Grain Exchange Bldg., Oklahoma City, reported, has permit to extend line 59 miles from Hooker to Keyes and Cimarron Counties, Okla.; C. J. Turpin, V.-Pres. and Gen. Mgr., advises propose to begin construction soon and complete 20 to 25 mi. by July; excavation 163,450 cu. yds., embankment 81,580 cu. yds.; greater part of work can be done with elevator graders. 3-15

Texas—Southern Pacific Lines, (Texas and Louisiana) R. W. Barnes, Ch. Engr., Houston, work already authorized or under consideration includes completion of construction work in Rio Grande valley of Texas, relocating Globe branch, standard gauging the Nevada, California & Oregon R. R. (subsidiary company) extension certain double track work, amplification of yards and freight terminal facilities in various cities, new and heavier ballasting, laying heavier rails, purchase new equipment, etc.; \$20,000,000. 3-1

Texas—St. Louis and San Francisco Ry. Co., F. G. Jonah, Ch. Engr., St. Louis, Mo., reported, granted authority by Interstate Commerce Comm. to take over Paris & Great Northern R. R., also to issue \$171,000 capital stock to be given in exchange for \$500,000 capital stock of P. & G. N. and to assume \$339,000 of its bonded obligations.

Tex., Clinton—Harris County Navigation Dist., owner of Public Belt Railroad, reported, plans 10 mi. extension from Cotton Patch Bayou to Morgans Point; acquiring right of way.

Va., Suffolk—Southport Railway Incorporated; James E. Cuthbert, Robt. G. Spratley, Watson Court, both Petersburg; S. R. Carter, Ashland.

Railway Shops and Terminals

La., Pointe A la Hache—Terminals—See Miscellaneous Construction.

Tex., Cleburne—H. D. McCoy, Cleburne, reported, has contract for Santa Fe System machine shops, replacing present structures; conc. steel; install new equipment; \$1,000,000; Frank Merritt, Ch. Engr., Galveston. 2-16

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Birmingham—City Comm., reported, plans \$130,600 street and sewer work.

Ala., Mobile—State Docks Comm., reported, plans paving roadways on port-terminal site.

Ala., Mobile—See Financial News.

Ala., Montgomery—W. L. Jackson, City Clk., reported, receives bids Apr. 10 to resurface Dexter Ave., Court Sq. to Lawrence St.; plans paving Fairview Ave. with asphalt, Norman Bridge Rd. to Frederick St.

Ala., Sheffield—City, reported, plans paving 6 streets.

Arkansas—State Highway Comm., Little Rock, reported, receives bids Mar. 30 for 18 roads, 37 bridges: Bedford-Moore Counties—16,710 mi.; Hardeman County—13,670 mi.; Fayette County—4,390 and 6,580 mi.; Cooke County—9,800 mi.; Marion County—2,114 and 9,247 mi.; Cheatham County—9,530 mi.; Madison County—2,724 mi.; Shelby County—9,977 and 4,638 mi.; Unicoi County—9,381 mi.; Lake County—10,307 mi.; Crockett County—5,400 mi.; Gibson County—10,189 mi.; Knox County—6,298 mi.; Davidson County—6,668 mi.; Williamson County—8,923 mi.; bridges in Davidson, Madison, Shelby, Lake, Crockett, Gibson, Knox, Robertson counties.

Arkansas—State Highway Comm., Little Rock, reported, receives bids Mar. 30 for 2 roads: Cleburne County—13½ mi. grading, draining State Highway 25, Sec. 2; 81,141 cu. yd. excavation and borrow, 157,278 lb. rein. steel; Crawford County—7½ mi. grading, draining, conc. paving, State Highway 64, Sec. 2; 32,574 cu. yd. excavation and borrow, 41,264 lb. rein. steel.

Ark., Brinkley—City Council, reported,

considering \$178,000 for paving principal streets. See Financial News.

Ark., Paragould—State Highway Comm., Little Rock, reported, plans receiving bids in May for Highway 1, Paragould to Gainesville.

Ark., Van Buren—State Highway Comm., Little Rock, reported, receives bids Apr. 18 for 9 mi. conc. Highway 64, Sec. 2, Alma-Mulberry road, 94,186 sq. yd. grading and conc., 6846 lb. rein. steel.

Ark., West Helena, Ind. Branch, Helena—Bd. of Commrs., Street Improvement Dist. 1, R. R. Smith, Sec., and Street Improvement Dist. 2, Ed Kalb, Sec., reported, receive bids Apr. 5 for 3,101 lin. ft. concrete curb and gutter, 4,414 sq. yds. 5½-in. rein. conc. or 2-in. bit. conc. surfacing, 6-in. crushed rock or 7-in. gravel base; 818 lin. ft. 18 to 42-in. storm sewers, 6 conc. sewer inlets, Dist. 1; 5,973 sq. yds. grading, 3,477 lin. ft. conc. curb and gutter, integral construction, 5,973 sq. yd. paving, 587 lin. ft. 18 and 24-in. storm sewers, 9 conc. inlets, Dist. 2.

Fla., Apalachicola—City plans \$100,000 paving and sidewalks. See Financial News. 3-15

Fla., Hollywood—Fred J. Stewart, Acting City Mgr., reported, plans paving Hays and Garfield, Nineteenth and Twentieth St., Hollywood Beach, Central Beach and lake sections.

Fla., Tampa—State Road Dept., Tallahassee, reported, plans rebuilding 12 mi. Sulphur Springs-Lutz section, State Road 5, Nebraska Ave., Sulphur Springs to Deer Lake, Pasco County line.

Fla., West Palm Beach—Palm Beach County Commrs., reported, plan completing road, from Brown Co. plantation, Everglades, to connect with State Rd. No. 4.

Ga., Atlanta—Fulton County, reported, plans about \$1,000,000 paving in 1928.

Ga., Waycross—Ware County Commrs., reported, plan 7-mi. sand-clay Waycross-Nicholls Rd.

Kentucky—State Highway Comm., Frankfort, receives bids Apr. 27 for 10 roads and bridges: Barren County—4.7 mi. surfacing, Glasgow-Edmonton rd.; Breathitt County—11.3 mi. grade and drain, Jackson-Hazard rd.; Perry County—9.2 mi. grade and drain, Jackson rd.; Floyd County—5.9 mi. Allen-Lackey (Beaver Creek) rd.; Grant County—5.2 mi. surfacing, Williamstown-Georgetown (Dixie Highway) rd.; Scott County—8.5 mi. Georgetown-Williamstown rd.; two 22-ft. conc. spans, grading, drainage surfacing approaches; 4 mi. Georgetown-Williamstown rd.; Harlan County—17.3 mi. grade and drain, Harlan-Whitesburg; Washington County—3.9 mi. surfacing, Springfield-Lebanon; Marion County—3.6 mi. surfacing Lebanon-Springfield.

Kentucky—State Highway Dept., Frankfort, received low bids for 4 roads: Ballard County—6.112 mi. grade and drain, Wickliff-Paducah Rd., Fraser & Cooke, Wickliff, \$80,610; Casey County—4.112 mi. gravel, Liberty-Russell Springs Rd., Phelps Construction Co., Somerset, \$21,350; Graves County—5.504 mi. grade and drain, Clinton-Mayfield Rd., M. E. Stone & Co., Madisonville, \$60,631; Lincoln County—11.576 mi. traffic bound macad. Stanford-Mt. Vernon Rd., R. E. Van Camp, Lexington, \$48,238. 3-1

Ky., Catlettsburg—J. S. Secrest, Boyd County Clk., reported, plans grading and draining Hooda Creek rd.; sold bonds.

La., Farmerville—Louisiana Highway Comm., Baton Rouge, receives bids Apr. 12 to furnish gravel and build 7.616 mi. Marion-Huttig Highway, Union Parish.

La., New Orleans—Comm. Council, reported, plans 25 mi. hard surface paving, 10 mi. temporary surfacing.

Maryland—State Roads Comm., Baltimore, receives bids Apr. 10 for 9 roads: Washington County—1.48 mi. conc. from end of Cont. W-46 toward Cavetown, Cont. W-51; Frederick County—1.5 mi. conc., Middletown toward Jefferson, Cont. F-106; Baltimore City—4 mi. sheet asphalt, Harford Rd., Richmond to Orlando, Cont. BC-75; Queen Anne County—2 mi. conc., Cont. Q-39, toward Delaware State line, Cont. Q-44; Talbot County—1.04 mi. conc., Cont. T-26 to Cordova, Cont. & 29; Wilcomico County—1.12 mi. conc., Cont. W1-41 to Delaware State line, Cont. W1-47; Frederick County—1.25 mi. conc. shoulders, Emmitsburg to Pennsylvania State line, Cont. F-16-B; Allegany County—7.3 mi. conc. shoulders, Cumberland to Frostburg, Cont. A-1-B; Cecil County—3.75 mi. conc. shoulders, Porters Bridge to Rising Sun, Cont. Ce-9-A.

Md., Baltimore—Wm. F. Broening, Mayor, considering widening Maryland Ave., North Ave. to Twenty-fifth St.

Md., Baltimore—City, Nathan L. Smith,

Highways Engr., plans paving Garrison Ave., sheet asphalt, Berwyn to Belleville Ave.

Md., Baltimore—Bd. of Awards receives bids Apr. 4 to grade and pave with cement conc. alleys, Alley Cont. 126; grade, curb and pave with 10,800 sq. yd. conc. streets, Street Cont. 454; cement conc. footways, Footway Cont. 105; Nathan L. Smith, Highway Engr.

Md., Takoma Park, Ind. Sta., Washington, D. C.—State Roads Comm., Baltimore, receives bids Apr. 3 for 1 mi. 36-ft. conc. pavement and curbs, Takoma Park, Montgomery County.

Md., Upper Marlboro — Prince Georges County Commrs., reported, plan 7 roads; conc., gravel, etc.

Miss., Ackerman—Choctaw County Bd. of Supvrs., reported, receives bids Apr. 13 for 16 mi. road to Webster County line.

Miss., Ackerman—Choctaw County Bd. of Supvrs., reported, receives bids Apr. 13 for 4 roads: 2 mi. gravel, Ackerman to Kosciusko, 18,775 sq. yds. mixing clay, 6248 tons clay gravel, 4594 tons washed gravel; 7 mi. gravel, Ackerman to Louisville, 65,707 sq. yds. mixing clay, 21,868 tons clay gravel; 16,430 tons washed gravel; 16,105 mi. grading, Calhoun to Ackerman, 170,710 cu. yds. excavation and borrow, 26,250 lbs. rein. steel; 80-ft. steel span, 18,217 lbs. struct. steel; 6.62 mi. gravel, Ackerman to Starkville, 62,133 sq. yds. mixing clay, 20,682 tons clay gravel, 15,517 tons washed gravel.

Miss., Flora—Bd. of Aldermen, reported, receiving bids for street improvement.

Miss., Jackson — City Comm., reported, plans paving, curb, gutter, etc., in South Jackson; S. Gallatin, Rankin and S. West St.

Miss., Merigold—T. R. Park, Mayor, reported, receives bids April 3 for 16,400 sq. yds. conc. pavement, 7,000 lin. ft. conc. curb, 740 lin. ft. storm drains.

Miss., Pontotoc—Pontotoc County Bd. of Supvrs., reported, receives bids Apr. 3 for 6.192 mi. state trunk rd., Pontotoc to Oxford; 70,205 cu. yds. excavation and borrow, 94,000 lbs. rein. steel.

Mo., Columbia—City, reported, plans 7-in. 30-ft. rein. conc. surface, Seventh, and 24-ft. on Garth St.

Mo., Ferguson, Ind. Branch, St. Louis—City, reported, plans \$25,000 street work. See Financial News.

Mo., Independence—Jackson County, reported, plans \$6,500,000 roads. See Financial News.

Mo., Maplewood — Mercedes E. Schuster, City Clk., reported, receives bids Apr. 6 for 1371 sq. yd. conc. paving, 1234 ft. conc. curb.

Mo., Sedalia — Pettis County Court, reported, receives bids Apr. 3 to gravel 3 sections of roads, 12 mi., Longwood Township; T. O. Stanley, County Highway Engr.

Mo., Springfield—C. A. Dickerson, City Clk., reported, receives bids soon for 4,246 ft. conc. sidewalks; 10,011 yd. paving; 1,877 ft. curb.

Mo., St. Louis—Board of Public Works, reported, receives bids April 19 to improve Delmar Blvd., Hamilton Blvd. to Skinker rd.

N. C., Charlotte—City, Mayor Redd, and Mecklenburg County, reported, will repave S. Alexander St., city hall to courthouse.

N. C., Franklin—Macon County and Nantahala Forest Service, reported, plan 6 mi. road, Nantahala Gap to Aquone.

N. C., Greensboro—Guilford County Commrs., reported, plan ¼ mi. hard surface road, Guilford College to Guilford Battleground.

N. C., Greensboro—Guilford County Commrs., reported, plan 50-ft. wide grading, topsoil surface, Greensboro-High Point Rd., Greensboro to Deep River church; underpass, Southern Ry., near Pomona. 2-16

N. C., Newton—Southern Power Co., reported, making survey to rebuild Horseford Bridge rd.

N. C., Winston-Salem—City, reported, plans widening W. Eighth St., Main to Trade.

N. C., Winston-Salem—City Aldermen, reported, plan extending and widening Third St.

N. C., Winston-Salem — City, reported, plans 1,398,650 street work in 1928.

Oklahoma—State Highway Comm., Oklahoma City, reported, received low bids for 12 roads, 17 bridges: Creek County—6.77 mi. conc., Bristow to Depew, Tom Collins, 1219 W. 20th St., Oklahoma City, \$152,102; Oklahoma County—1½ mi. paving, U. S. Highway 206, Roy Tanner, 1244 N. Main St., Tulsa, \$49,190, conc.; Tom L. Green, 419 W. 21st St., Oklahoma City, \$63,050, asphalt; Lincoln County—grading, draining, surfacing, Chandler to Wellston, H. L. Canady, 10

E. 26th St., Tulsa, \$386,224; McNeal & Wells, Enid, \$29,881, for 14 bridges; Comanche County—7.59 mi. Lawton, east, Gibson & Gibson, Pauls Valley, \$180,505; Canadian County—0.77 mi. asphalt top, Yukon to El Reno, Park & Co., Okmulgee, \$295,546; Kay County—6.63 mi. conc. Brame to Kansas line, Hyde Construction Co., Enid, \$148,295; Logan County—4 mi. conc. State Highway 33, Theodore Gudgel, Stillwater, \$93,916; Grady County—6 mi. asphalt top, conc. base, Rush Springs south, Western Paving Co., Trades Natl. Bldg., Oklahoma City, \$166,039; 2-in. top on conc. base, \$173,345; Beckham County—7.9 mi. 1½-in. asphalt (conc. base, Standard Paving Co., 2119 E. 11th St., Tulsa, \$224,729; Roy Tanner, \$183,614, conc.; Noble County—4 mi. paving, Marland, west, Hanson-Pearce, 519½ Main St., \$83,857; Seminole County—11.7 mi. Seminole to Weewoka: Sec. G, asphalt on conc. base, Ward-Beekman-Brooks, 1801 E. Ninth St., both Oklahoma City; \$180,878; Sec. H, \$179,867; Nowata County—Nims and Frost for 1 bridge; Woodward Const. Co., for 2 bridges. 3-15

Okla., Blackwell—City Engr., reported, making survey, for paving drive at University Preparatory College.

Okla., Boise City—State Highway Comm., Oklahoma City, reported, plans regrading 5 or 6 mi. U. S. Highway 64, Boise City through Kenton.

Okla., Guthrie—City Comm., reported, plans 3 mi. pavement.

Okla., Guthrie—Logan County, reported, plans 40 mi. gravel roads, \$400,000. See Financial News.

Okla., Newkirk—Kay County Commrs., reported, receives bids Mar. 31 for 1½ mi. road, connecting Newkirk cemetery with Newkirk-Arkansas City rd.

Okla., Oklahoma City — E. M. Fry, City Mgr., reported, plans 6-in. conc. surface on Kate and Walker Ave.; Warrenite bitulithic surface, Phillips and Klein Ave.; natural rock asphalt, Military and Shariel Ave.; paving Eleventh, Thirteenth and Sycamore St., widening Harvey Ave.; plans paving Fonthill and Euclid Ave. See Financial News.

Okla., Tulsa—R. J. Greenwood, Skiatook, Pres. of Association, reported, formed to consider extending Highway 20, Claremore, west.

S. C., Georgetown—Georgetown County, reported, plans paving lower Route 40, from Sampit Bridge, Georgetown, to Santee River.

S. C., Union — Union County, reported, plans 22 mi. hard surfaced and 56 mi. surface treated roads.

Tennessee—Dept. of Highways and Public Works, Nashville, reported, plans \$817,500 for building and maintenance in Grainger, Fentress, Humphreys, Gibson, Greene, Franklin, Lawrence, Hardeman Counties.

Tennessee—Dept. of Highways and Public Works, Col. Harry S. Berry, Commr., Nashville, reported, plans Austin Peay Highway, from Kentucky line near Willow Grove, Clay County, through Cella, Lafayette, Westmoreland, Portland, Orinda, Springfield, Clarksville, Dover, Paris, McKenzie, Trezevant, Milan, Humboldt, Bells, Brownsville to Mississippi line.

Tenn., Bristol—City Comm., reported, receives bids Apr. 3 for conc. paving in Dist. 61, 63 and 64; \$24,500.

Tenn., Chattanooga—Dept. of Highways and Public Works, Nashville, reported, may let contract in July to pave Whiteside St., Twenty-eighth St. to St. Elmo Ave.

Tenn., Knoxville—Mgr. Roehl, City Mgr., reported, considering \$750,200 street paving, 41 districts. See Financial News.

Tenn., Lookout Mountain—John H. Wheelock, Commr. and Treas., plans 20-ft. conc. slab or driveway on Green St.; will conc. other streets. 3-22

Tenn., Somerville — Fayette County, reported, plans \$150,000 road maintenance and improvement on 6 Routes.

Tenn., Spencer—State Highway Dept. Engr., Nashville, reported, surveying 8 mi. Road 30, Spencer to Warren County line, at Goodbars.

Tenn., Trenton—Gibson County, reported, receives bids Mar. 30 to grade and drain Highway 41, Alamo to Trenton.

Texas—State Highway Comm., Austin, reported, receives bids Apr. 2 for 2 roads: Wharton County—9.692 mi. gravel base, Highway 60; Harris County—24.507 mi. grading, draining, conc. surface Highway 6; 190,960 cu. yd. excavation and borrow, 393,403 lb. rein. steel.

Texas—State Highway Comm., Austin, reported, receives bids Apr. 2 for 2 roads; Fayette County—3.292 mi. grading, bridges,

gravel surfacing, Highway 72; Houston County 8.546 mi. grading, bridges, Highway 21.

Texas—State Highway Comm., Austin, reported, receives bids Apr. 20 for one course asphalt surface treatment on 20 roads, totaling 363.43 mi., 3,639,892 sq. yds. in 23 counties.

Tex., Albany — Shackelford County, reported, plans \$300,000 road building. See Financial News.

Tex., Amarillo — Potter County, Sam B. Motlow, Judge, plans bit. surfacing on gravel road, connecting Highways 5 and 33, \$36,400.

Tex., Amarillo—Potter County, Sam B. Motlow, Judge, reported, receives bids Apr. 9 for 3.39 mi. road, city limits on W. Tenth St., to State Highway 13; 11,500 cu. yds. gravel, 2,500 lin. ft. conc. curb and gutter, 2,777 sq. yds. rein. conc. pavement, combined curb; alternate bids 8-in. compact caliche; J. W. Ryder, County Engr.

Tex., Austin—P. W. McFadden, Mayor, reported, plans street surfacing, etc., and bridges. See Financial News.

Tex., Brady—McCulloch County, reported, considering \$1,985,000, hard surfacing roads. See Financial News.

Tex., Childress—City, reported, plans 9 blocks paving.

Tex., Corpus Christi—Neuces County Commrs. Court, reported, granted request to open road, Leopard St. extension to Evans tract, and to Country Club Place.

Tex., Corpus Christi—City Council, reported, plans widening Leopard, and paving Water St. See Financial News.

Tex., Corpus Christi—Neuces County Auditor, reported, receives bids Apr. 17 for 1½ mi. Agnes St. road; 2.2 mi. Augus Dulce road; timber bridge over Peeronilla Creek.

Tex., Cuero—State Highway Comm., Austin, reported, receives bids April 2 for 15.2 mi. asphalt topping, Highway 29, Victoria-DeWitt County line, through Cuero.

Tex., Dallas—City Comm., reported, plans widening 4 downtown streets; F. L. Parks, City Plan Engr.

Tex., Denton—Denton County, reported, plans letting contract June 1 to surface 9 mi. Federal Highway 77, Lewisville road; State Highway Comm., Austin, will grade and drain. 3-22

Tex., Freeport—City, reported, plans \$80,000 street paving. See Financial News. 3-8

Tex., Galveston — Clark W. Thompson, Twenty-second and E St., Sec. Treas., Cedar Lawn Co., reported, receives bids about 60 days for 5000 ft. 30-ft. grading, curbing and asphalt or similar topping, shell base, paving. 3-22

Tex., Groesbeck — State Highway Comm., Austin, reported, plans State Highway 24, Kosse to Bremond.

Tex., Houston—W. A. Moore, City Sec., reported, plans \$400,000 for 4 mi., probably brick paving, sewers, etc., Clinton road, Hill to Turning Basin; 65 ft. wide.

Tex., Houston—Harris County Navigation Dist. Commrs., B. C. Allen, Sec., reported, receive bids Apr. 5 for conc. roads.

Tex., Houston — Harris County, H. L. Washburn, Auditor, reported, receives bids Apr. 12 for conc., Clinton and Market St. rd., Apr. 11 for surface paving Main St. rd., Bellaire Blvd. to West Junction.

Tex., Houston—W. A. Moore, City Sec., reported, plans letting contract to pave 3½ mi. Main St. road; asphalt top to Brays Bayou; 20-ft. wide, solid conc. to West Junction.

Tex., Kerrville — Kerr County, reported, considering 14 mi. pavement to Kendall County line. See Financial News.

Tex., Kingsville—State Highway Dept., Austin, reported, plans 24 mi. asphalt top, Highway 16, Riviera, Kleberg County, to Falfurrias, Brooks County.

Tex., Laredo—Albert Martin, Mayor, reported, plans paving 4 mi. thoroughfares to direct connections with roads leading out of Laredo; top 4 mi. on 3 streets, widen Market St.

Tex., Lefors—Gray County, T. M. Wolfe, County Judge, reported, receives bids Apr. 9 to improve road, extending south of Pampa.

Tex., Lefors—Gray County plans \$175,000 road, Dist. 2. See Financial News.

Tex., Lufkin—State Highway Dept., Austin, plans 28 mi. 5/10 gal. per sq. yd. asphalt surface treatment on old gravel base, Angelina and Nacogdoches Counties.

Tex., Newton—State Highway Dept., Austin, reported, plans widening 6 to 10 ft. Highway 87, through Newton County, from Orange and Newton County line.

Tex., Paducah—Cottle County, reported, receives bids Apr. 2 for 9 mi. grading, draining Salt Creek rd. and 4 mi. Delwin rd.

Tex., Ranger—City Comm., reported, plans 3 blocks paving.

Tex., Raymondville—Willacy County, reported, plans \$500,000 hard surface road, Dist. 3. See Financial News.

Tex., Raymondville—State Highway Comm., Austin, receives bids April 2 for 9.697 mi. 18-ft. conc. base, 17-ft. asphalt top, Raymondville to Cameron County line.

Tex., Rio Hondo—See Financial News.

Tex., Rockport—Aransas County, Joe. E. Harper, Judge, plans 21 mi. grading, bridges, base surfacing, Highway 113.

Tex., San Antonio—C. H. Chambers, Mayor, reported, receives bids Apr. 2 to pave South Main and Stumberg St.

Tex., San Antonio—City, reported, considering widening to 39 ft. and paving E. Houston St., \$21,152; Bexar County Commrs., reported, considering paved highway connecting E. Houston St. with Seguin rd.

Tex., Uvalde—City, reported, plans \$47,500 streets. See Financial News.

Tex., Weslaco—City plans \$90,000 streets. See Financial News.

Tex., Yoakum—City Commrs., reported, plan \$80,000 street improvements. See Financial News.

Va., Luray—Page County Bd. of Supvrs., reported, plans road, from Eastside Highway, near Luray to Stony Man, leading into Shenandoah National Park area.

Va., Petersburg—City Council, reported, plans widening East Bank St. 20 ft. Main to city limits, to meet State Highway from Petersburg to Hopewell, State Highway Comm., Richmond, plans building; considering improving Madison St. to Washington St.

Va., Richmond—State Highway Dept., reported, plans receiving bids in few weeks for \$2,000,000 to \$3,000,000 highway work.

W. Va., Charleston—Kanawha County Commrs., reported, received low bid from K. E. Reed & Co., South Charleston, for 4 conc. roads, Jefferson Dist.; 6 mi. Coal River road, \$150,816; 1.8 mi. Elkview-Walton road, \$46,744; 1 mi. Willis Creek road, \$26,359; 1 mi. Elkview-Pinch road, \$28,089.

W. Va., Fairmont—George Shoemaker, Director of Streets, reported, plans widening Pennsylvania Ave. near Buffalo Creek Bridge.

Contracts Awarded

Ala., Birmingham—City Comm., reported, let contracts at \$158,905 for paving and sewers: Wesco Co.; A. H. Dimijian; J. W. Gwin, Age-Herald Bldg.; R. W. H. Pattie, 1566 N. 23rd St.; Independent Paving Co., Amer. Tr. Bldg.; Dan A. Burton, Jackson Bldg.; Ross & McCormick; Southern Roads Co., Pioneer Bldg.

Ark., Washington—State Highway Dept., Little Rock, reported, let contract to J. R. Miller, Texarkana, \$44,426, for 11½ mi. Hope-Lewisville rd., Hempstead County.

Fla., Kissimmee—A. D. Weeks, reported, has contract for 2 roads, State Highway No. 24, 25 mi., Osceola County.

Ga., Atlanta—City Council, reported, approved contracts for 6 streets, 29,460 sq. yd., \$56,427; Jamison & Hollowell, Pitman Construction Co., Sam E. Finley.

Ky., Louisville—Bd. of Public Works, reported, let contracts at \$85,000 for street and bridge building: Henry Bickel Co., 443 Garden St.; Andrews Asphalt Paving Co., In-Sou. Bldg.; Louisville Asphalt Co., Floyd and Lee Sts.; George M. Eady Co., Gilbert and Lee Sts.; J. U. Schickl & Brother, 21st and Greenwood Sts.; to rebuild bridge, Beargrass Creek.

La., Baton Rouge—City Comm., reported, let contract to Robert Thibodeaux to widen Lafayette St., North Blvd. to Laurel St. 3-1

La., Covington—St. Tammany Parish, Supvg. Bd. Road Dist. 4, reported, let contract to J. H. Newton Construction Co., Amite, \$19,654, for 9.76 mi. gravel Mandeville Junction rd. 3-1

La., DeRidder—Beauregard Parish, Road Dist. 1, D. W. McFatter, Sec.-Treas., reported, let contract to Hammett & Salter, Natchitoches, \$28,000, for 40,000 yd. grading, gravel surfacing. 2-23

Md., Baltimore—Bureau of Highways let contract to Ward & Connell, 3112 Presbury St., \$25,924, for 10,550 sq. yd. conc. paving, 8800 lin. ft. curbing, etc., Cont. 452. 3-8

Miss., Fayette—Jefferson County Bd. of Supvrs., reported, let contract to Fairley & Gaddy, Gulfport, \$86,019, for Highway 61, Harrison to Claiborne County line, and bridges and culverts. 2-23

Mo., Mexico—City, reported, let contract

to Iowa Road Building Co. to furnish and apply 100,000 gal. oil on streets.

N. C., Charlotte—R. L. Brown, Commr. of Public Works, reported, let contract to Simmons Construction Co., 11 E. Third St., \$320,768, for 4-in. conc. base, asphalt top paving, for 1928.

Okla., Tecumseh—J. W. Critz, Shawnee, reported, has contract for 5 mi. grading and draining Highway 18, Tecumseh, south.

Tenn., Coal Creek—City, reported, let contract to T. C. Jones, Athens, for ½ mi. conc. paving. 3-1

Tenn., Humboldt—A. H. Barnett, Mayor, reported, let contract to Cresap Bros., \$39,900, for 19,900 sq. yd. rock asphalt paving.

Tenn., Memphis—D. C. Miller, City Clk., reported, let contract to Hogan Construction Co., Paving Ex. Bldg., foot of Auction St., 150,591, on asphaltic conc. paving, Poplar Ave.

Texas—State Highway Comm., Austin, reported, let contracts for 8 roads: Trinity County—19 mi. gravel base, bit. surface treatment, Highway 94, Lone Star Co., 120 Jones St., San Antonio, \$211,568; Shelby County—17 mi. iron ore top soil base course, Highway 35, D. T. Parmlee, Nacogdoches, \$86,973; Archer County—18 mi. grading, draining, Highway 30, McClung Construction Co., Fort Worth, \$41,518; 16 mi. grading, draining, Highway 79, \$31,389; Young County—1.5 mi. grading and draining, Highway 79, Womack Construction Co., Sherman, \$6418; Uvalde County—17 mi. grading and draining, Highway 3, Kyle & Peterson, Hutto, \$82,008; Limestone County—less than mile, grading, draining, Highway 7, F. P. McElwraith, Corsicana, \$21,835; 2 mi., Highway 7, \$56,902. 3-8

Tex., Beaumont—Ollie J. Boyd, City Mgr., reported, let contract to Uvalde Rock Asphalt Co., Frost Natl. Bank Bldg., San Antonio, to pave 50 gaps, on streets. 2-2

Tex., Denton—W. B. McKenzie, Mayor, reported, let contract to Jagoe Construction Co. for conc. paving, Sycamore St.; Millican & McCrary, subcontract for curb and gutter. 3-15

Tex., San Antonio—Bexar County, reported, let contract to Colglazier & Hoff, Inc., 125 Crosby St., for ½-in. limestone rock asphalt topping on Germania and West Ashby St.

Tex., San Benito—Dodds & Wedegartner, reported, have contract to pave road leading into city from west.

Virginia—State Highway Comm., Richmond, reported, let contract at \$307,201 for oil for various roads: Standard Oil Co. of New Jersey, 26 Broadway, New York; F. J. Lewis Manufacturing Co., 2500 S. Robey St., Central Commercial Co., 322 S. Michigan Ave., both Chicago, Ill.; American Tar Products Co., Union Tr. Bldg., Pittsburgh, Pa.

W. Va., Wheeling—D. A. Jacovetty, reported, has contract to pave Warwood Ave.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—See Roads, Streets, Paving.

Ala., Decatur—E. J. Kirkpatrick Construction Co., Pine and Tennessee Sts., Florence, Ala., has contract for sanitary sewers.

Ala., Montgomery—City, reported, receives bids Apr. 3 for sanitary sewer Fifth St.

Ala., Sheffield—City, reported, plans \$250,000 sanitary sewers; Herbert Kinnard, Commr.

Ark., West Helena, Ind. Branch Helena—See Roads, Streets, Paving.

D. C., Washington—Dist. Commrs. receive bids Apr. 3 for sewers. See Want Section—Bids Asked.

Ky., Louisville—Cannell-Conrad Const. Co., Todd Bldg., low bidder at \$175,104 for Whitney Ave., Berry Blvd. sewer, Section A. 2-23

La., Pineville—Terrill Construction Co., Alexandria, reported, has contract for Item No. 1 of sewer project, including c.i. and conc. pipe, laying same and building pumping plants, \$11,000; also for trenching, laying pipe, back filling for conc. sewer pipe, \$25,683; laying c.i. pipe, constructing manholes, etc., \$28,800; Concrete Pipe Co., New Orleans, La., at \$17,070 for conc. sewer pipe; United States Cast Iron Pipe and Foundry Co., Birmingham, Ala., for c.i. pipe. 3-22

Md., Baltimore—W. H. Thompson Const. Co., Inc., Relay, has contract at \$39,262 for storm drains and sanitary sewers. 3-8

Miss., Brookhaven—City receives bids Apr. 3 for sewers. See Want Section—Bids Asked.

Miss., Calhoun City—See Water Works.

Miss., Hazlehurst—City, reported, install \$10,000 sewer system, Extension St. 2-16

Miss., Utica—Town, reported, soon advertise for bids for sewer survey.

Mo., Moberly—City, reported, plans voting on bonds for trunk sewer, bathing beach and playgrounds.

Mo., St. Joseph—City, reported, appropriated \$56,168 for constructing northeast fork of Whitehead main sewer.

Mo., St. Louis—Martin & Relly, 7227 Lindell St., reported, low bidder at \$92,250 for sewers in Wherry Ave. sewer Dist. No. 1.

Okla., Edmond—Benson & Farrar, Guthrie, reported, has contract for sanitary sewer and disposal plant.

Okla., Lamont—Chamber of Commerce, reported, interested in installing sewer system.

Okla., Tulsa—City, reported, soon call for bids for 2 storm sewers, Detroit Ave., Newton St., etc.; E. G. Fluke, 114½ E. Second St., has contract for sewer in Fair Acres, Hursts and Foreman additions.

S. C., Greenville—Greater Greenville Sewer Dist. Comm., reported, let contract American Cast Iron Pipe Co., Birmingham, Ala., for pipe for remaining trunk lines. 3-15

S. C., Greenville—Greater Greenville Sewer Dist. receives bids Apr. 17 for sewers. See Want Section—Bids Asked.

S. C., Greer—City, reported, plans water and sewer improvements. See Financial News.

Tenn., Greenfield—E. J. Kirkpatrick Construction Co., Pine and Tennessee Sts., Florence, Ala., has contract at \$42,351 for sanitary sewer system; Cannelton Sewer Pipe Co., Cannelton, Ind., for 6, 8, 10, 12 and 15-in. t.e. pipe and 8-in. c.i. pipe; Jakes Foundry Co., 2800 Charl. Ave., Nashville, Tenn., for manholes rings; Thos. H. Allen, Engr., Bank of Commerce & Trust Bldg., Memphis.

Tex., Austin—City votes about May 15 on sanitary and storm sewers. See Financial News.

Tex., Beverly—Hanson-Pearce Const. Co., 420 Perine Bldg., Oklahoma City, Okla., has contract for sewers and appurtenances; Booker & Williamson, Engrs., Texarkana, Tex.

Tex., Estelline—See Water Works.

Tex., Fort Worth—Tarrant Construction Co., 1005 Calhoun St., reported, has contract for 2 storm sewers on Drew and Tremont Sts.

Tex., Freeport—City voted sewer bonds. See Financial News.

Tex., Goose Creek—City, H. W. Kilpatrick, Mayor, reported, acquired sewer system; will improve.

Tex., Houston—City receives bids Apr. 4 for storm sewers. See Want Section—Bids Asked.

Tex., Port Neches—See Water Works.

Tex., San Antonio—A. Lawrie Kurtz, of Fuller & McClintock, 170 Broadway, New York, reported, recommended construction of \$2,500,000 activated sludge sewage disposal plant; C. M. Chambers, Mayor.

Tex., Rotan—City, reported, plans \$30,000 sewer bond issue.

Tex., Vernon—City, reported, authorized issuance of water and sewer bonds. 3-1

Tex., Weslaco—See Water Works.

Tex., Yoakum—Kirkwood, Wharton & Lee, 465 Main Ave., San Antonio, has contract at \$63,000, for sewer system and disposal plant.

Va., Norfolk—J. L. Smith, 500 High St., reported, low bidder at \$43,385 for drainage and sewer Ocean View and Pinewell subdivisions. 3-22

W. Va., Huntington—Gerchow & McGinnis, Box 1037, has contract at \$35,000 for storm and sanitary sewers; A. B. Maupin, City Engr. 3-15

W. Va., Star City—City voted \$40,000 bonds. 2-23

Shipbuilding Plants

Md., Baltimore—Bethlehem Shipbuilding Corp., J. M. Willis, Gen. Mgr., erecting ship repair plant, Key Highway, \$2,000,000; includes four 650-ft. piers, 7,000-ton floating dry dock with provision for 10,000 to 12,000 ton floating dry dock later, 350-ft. building way, 3 15-ton Terry cranes serve piers; main building 80x600 ft., steel, brick to house machine, steel fabricating, blacksmith, plumbing, pipe and sheet metal shops and foundry; 2-

story office building; power house for transformers, boilers, compressors, etc.; Sanford & Brooks Co., Commerce and Water Sts., contract for waterfront structures and dredging; steel fabricated by Bethlehem Steel Co., Bethlehem, Pa.; all construction under supervision of Company's engineering department to let sub-contracts for all branches of work; work to be completed by Nov. 1, 1928. 12-1

Street Railways

Mo., Kansas City—Kansas City Public Service Co., reported, offering \$4,000,000 first mortgage 6% bonds through Halsey, Stuart & Co., Chicago, Ill., Chase Securities Corp., New York, Newman, Saunders & Co., New Orleans, La. Company owns and operates street railways in Kansas City, Independence, Mo., and Kansas City, Kan., also operates local motorbus line.

Telephone Systems

N. C., Durham—Granville Telephone Co., capital \$50,000, incorporated; J. L. Conrad, 830 Mangum St.

Okla., Enid—Southwestern Bell Telephone Co., Oklahoma City, let contract to Holmboe Construction Co., 426 W. 2nd St., Oklahoma City, at \$32,500 for plant additions; one 2-story, 11x36-ft., one 2-story and basement, 38x31-10½-ft., rein. conc., tar and gravel roof. 2-2

Okla., Oklahoma City—Southwestern Bell Telephone Co., St. Louis, Mo., reported, receiving bids Apr. 1: 2-story, 50x54-ft. addition, rein. conc. and brick; plumbing and wiring separate; I. R. Timlin, Archt., St. Louis.

Va., Abingdon—Inter-Mountain Telephone Co., W. N. Ance, Jr., Pres., Bristol, reported, expend \$207,580 in 1928 in Virginia and Tennessee. 2-2

Va., Gloucester—East Coast Telephones, Inc., W. F. Stevens, Pres., reported, acquired system Tidewater Telephone Co., operating in Gloucester, Mathews, Middlesex, Essex and Kings and Queens Counties. 12-1

Va., South Boston—Old Dominion Consolidated Telephone Corp., capital \$25,000, chartered; B. W. Dodson, Pres., R. F. D. No. 1, Danville.

Textile Mills

Alabama—Alabama Mills Co., Birmingham, let contract to Batson-Cook Co., West Point, Ga., for mill, warehouses, cottages and other buildings; Robert & Co., Inc., Archts. and Engrs., Atlanta, Ga. 3-8

Ala., Anniston—Acme Weaving Mills, Inc., E. W. Bullard, Pres., reported, acquired Noble Mfg. Co.'s plant 14th St. and Gurnee Ave.; make 72-in. terry cloth.

Ala., Opelika—F. P. Sheldon & Son, Providence, R. I., Archts. and Engrs. in charge extending plant of Pepperell Mfg. Co., Batson-Cook Co., West Point, Ga., Contr.; spinning frames being transferred from Lowell (Mass.) plant. 3-8

Ga., Dalton—Westcott Hosiery Mills erect plant addition, 75x125 ft., 2 stories, mill construction, also dye house, 60x60 ft., 1 story; Lockwood, Greene & Co., Inc., Engrs., Charlotte, N. C., preparing plans; open bids about April 6. 3-22

Ga., Dalton—Following subcontracts let in connection cotton warehouse for Crown Cotton Mills: Struct. steel and miscellaneous iron, F. E. Gollan Co., 101 Marietta St., Atlanta; c. i. columns, Paul Wright & Co., Brown-Marx Bldg., Birmingham, Ala.; lumber, Pine Plume Lumber Co., First Natl. Bank Bldg., Montgomery; brick, Dalton Brick and Tile Co., Dalton; Sam N. Hodges & Co., Engrs. and Bldrs., 579 Peachtree St., Atlanta.

Ga., Newnan—Lockwood, Greene & Co., Inc., Engrs., Atlanta and Boston, Mass., let following contracts for Arco Mills: Brick settings, stokers and soot blowers for 2 HRT boilers, McBurney Stoker and Equipment Co., T. C. G. Bldg., Atlanta; 2 HRT boilers, R. D. Cole Mfg. Co., Newnan, piping and installing underground steam supply and main from boiler house to mill, Grinnell Co., Atlanta. 10-13

Ga., Woodland—Woodland Knitting Mills, Jas. Woodall, Mgr., reported, erect 1-story brick mill, comp. roof.

Ga., Woodbury—Robert Robinson, Perkins Cotton and Hosiery Mills, Columbus, reported, organizing \$10,000 hosiery mill.

N. C., Badin—Cannon Manufacturing Co., Kannapolis, G. B. Lewis, Treas., advises report that company is contemplating building a mercerizing plant is incorrect.

N. C., Elkin—Chatham Mfg. Co., let contract to Harrison-Wright Co., Charlotte, for wiring; Kester Machinery Co., Winston-

Salem, fire protection system; Lockwood, Greene & Co., Inc., Engrs., Charlotte, and Boston, Mass.

N. C., Gastonia—R. S. Dickson & Co., Inc., 3rd Trust Bldg., offering \$45,000 (450 shares) 8% preferred stock of Winget Yarn Mills Co.

N. C., Hickory—Patterson Upholstery Fabric Mill, F. F. Patterson, care Chamber of Commerce, reported has site, soon begin work on plant.

N. C., Hickory—Hickory Weavers, Inc., capital \$125,000, chartered; George E. Bisanar, Geo. Bailey.

S. C., Goldville—Joanna Cotton Mill, reported, build addition, install 28,000 spindles.

S. C., Newberry—Lockwood, Greene & Co., Inc., Charlotte, N. C., let contract to Harrison-Wright Co., Charlotte, N. C., for change in power wiring for Oakland Cotton Mills.

S. C., Spartanburg—Pacolet Manufacturing Co., engaged Lockwood, Greene & Co., Spartanburg, Boston, Mass., for engineering work in connection with improving general power layouts and lighting plan for Pacolet branch.

S. C., Spartanburg—Fiske-Carter Construction Co., 121½ E. Main St., has contract for Powell Knitting Co.'s mill, 132x108 ft., 2 stories and basement, conc. and steel; equipment to be same as present mill making total 450 knitting machines. 3-15

S. C., Spartanburg—Arkwright Mills, reported, increased capital \$200,000 to \$400,000.

S. C., Union—R. S. Dickson & Co., Inc., 3rd Trust Bldg., Gastonia, offering \$58,000 (580 shares) 7% cumulative first preferred stock of Union-Buttles Mills Co.

Tenn., Bemberg, P. O. Elizabethton—American Bemberg Corp., Engr. Dept., advises report company would erect third unit immediately incorrect. 3-22

Tenn., Dyersburg—Robert & Co., Engrs., Atlanta, Ga., reported, preparing plans for \$400,000 mill unit; Industrial Addition Assn., interested; will be merger of 5 textile companies, 2 spinning and 1 knitting plants in east and 2 knitting plants in north; N. W. Calcutt, and R. S. Watkins, Comm.

Tenn., Morristown—Aronsohn & Hirschfeld Silk Co., Inc., Paterson, N. J., reported, erect addition to present building.

Tex., Sugar Land—O. W. Hinds, Post-Dispatch Bldg., and Geo. G. Munxlinger, both Houston, reported, interested in organizing company with \$30,000 capital to establish decorticating mill to manufacture hemp fibre into linen thread; have contracted for 1700 acres hemp.

Va., Staunton—A Schottland, Inc., 39 Madison St., Paterson, N. J., reported, establish broad silk mill; \$150,000 to be furnished by company, \$100,000 locally.

W. Va., Bluefield—Chamber of Commerce, reported, negotiating with A. E. Kaplan, for textile mill.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ark., Booneville—City, R. S. Klingensmith, City Engr., plans \$500,000 water system; McDonald, McCullough & Proctor, Inc., Engrs. 2-23

Ark., Searcy—Searcy Water Co., Harry Neelly, Pres., reported, install water system.

Fla., Apalachicola—City voted \$20,000 water bonds.

La., Baton Rouge—Suburban Water Co., Inc., chartered; K. H. Knox, Bk. of Baton Rouge.

La., Clinton—City, reported, plans installing water works; may vote on \$40,000 bonds.

La., Collinsville—City voted \$26,000 water bonds. 3-1

La., Mansfield—City receives bids April 17 for extending water system; J. S. Ament, Engr. 2-23

La., Monroe—City, reported, rejected bids for pump station and earth dam across Bayou DeSard. 2-23

La., Monroe—City rejected bids for DeSard pumping station; will either re-design or postpone work. 2-23

La., Pineville—C. J. Montgomery, Kaplan, reported, has contract for reservoir, laying pipe and setting up hydrants; United States Cast Iron Pipe & Foundry Co., Birmingham, Ala., pipe; Columbian Iron Works, 2501 Chestnut St., Chattanooga, Tenn., 40 hydrants; Layne Louisiana Co., 210 Broad St., Lake Charles, drilling artesian well. 3-22

Miss., Calhoun—City receives bids Apr. 17 for water system. See Want Section—Bids Asked.

Miss., Calhoun City—City, reported, voted water and sewer bonds. 3-1

Miss., McLaurin—Town, Nollie Felts, Chrm. Comm., reported, install water system.

Miss., Picayune—City receives bids Apr. 9 for artesian wells. See Want Section—Bids Asked.

Mo., Noel—C. M. Harmon will extend water system; install storage reservoir, 20x16x10 ft., pumps and electric motor. 3-15

Mo., Rockport—City, reported, voted \$30,000 bonds; drill wells, build 150,000 gal. reservoir. 3-15

Mo., St. Louis—Laclede Steel Co., Arcade Bldg., reported, has contract for 250 tons steel for settling basin, Hinex.

Mo., St. Louis—Missouri Engineering & Cont. Co., Merchants Laclede Bldg., reported, low bidder at \$75,652 to furnish materials for secondary coagulation basin Howard Bend. 2-16

N. C., Greensboro—City construct with city forces water main connecting Proximity water works with city. 3-23

N. C., Winston-Salem—Norris Machine Works, reported, low bidder for 2,500,000 gal. high pressure, heavy duty, centrifugal pump, direct connected to 240 h. p. Sterling gas engine.

S. C., Anderson—Southern Public Utilities Co., Charlotte, reported, let contract to C. M. Guest & Son, N. McDuffie St., Anderson, for \$25,000 2,000,000 gal. rein. conc. reservoir.

S. C., Greer—See Sewer Construction.

S. C., Marion—Town, reported, acquired water company's property; R. B. Jones, Water Commr.

S. C., Seneca—J. S. Schofield Sons, Boundary St., Macon, Ga., has contract for water extension; build 200,000 gal. tank; H. S. Jaudon Eng. Co., Elberton, Ga., Engrs. 3-8

Tenn., Crossville—City, reported, construct water plant.

Texas—F. N. Kneeland & Co., Chicago, Davis, Longstaff & Co., Chicago-Minneapolis, Howard F. McCandless & Co., San Francisco-Los Angeles, offering \$1,000,000 first mortgage 6% gold bonds, Series A of Texas Water Utilities Co., Ft. Worth; company will own and operate properties supplying water to Memphis, Cameron, McGregor, Moody, Italy, Hempstead, Sealy, Estelline and Post; artificial ice plants at Moody and Italy and will install ice manufacturing plants at Comanche, Gorman, De Leon, Rising Star.

Tex., Beaumont—City Comm., reported, extend water mains to South Park, North Section and adjacent to Magnolia Park.

Tex., Big Lake—Vedder Construction Co., Sweetwater, has contract for water softening plant. 3-1

Tex., Collinsville—City voted \$300,000 bonds. 3-8

Tex., Dallas—City Plan Comm., reported, recommended O. H. Koch as Consit. Engr. for \$2,000,000 water improvements. 2-23

Tex., Estelline—Texas Water Co., V. A. Robinson, V.-P., 1003½ Houston St., Fort Worth, has specifications for water and sewer systems; install 7 m. c. i. mains, 50,000-gal. steel tank on 100-ft. tower; Y. A. Robinson, Supv. Engr. See Want Section—Machinery and Supplies.

Tex., Houston—Layne-Texas Co., 6931 Harrisburg Blvd., reported, has contract for well. 3-1

Tex., Junction—City voted water bonds. See Financial News.

Tex., Port Neches—City, reported, plans voting on water and sewer bonds.

Tex., Silvertown—Irick Construction Co., Plainview, has contract for water system; Hawley & Roberts, Engrs., Lubbock. 2-16

Tex., Vernon—See Water Works.

Tex., Weslaco—City voted \$40,000 water and \$30,000 sewer bonds. 2-23

Va., Purcellville—City voted \$60,000 bonds, install water filtration plant, Ketoctin Creek; soon call for bids. 3-8

West Virginia—Hale, Waters & Co., 50 Broadway, New York, offering \$500 shares \$7 cumulative first preferred stock of Community Water Service Co.; controls and operates water companies in New York, West Virginia, Kentucky, etc.

W. Va., Parkersburg—A. Phelps & Sons, 5150 Braden St., Detroit, Mich., reported, has contract at \$65,959 for carbon dioxide removal plant. 3-1

W. Va., Romney—City voted \$50,000 water bonds. 2-23

Woodworking Plants

Miss., Jackson—Millwork—Lloyd Manufacturing Co., incorporated; W. A. Moffatt, B. Frank Lloyd, both Meridian.

N. C., Greensboro—Pilot Mountain Handle Co., incorporated; C. S. Walters, 900 Courtland St.; A. C. Davis.

S. C., Georgetown—Brooklyn-Cooperage Co., reported, plans rebuilding brick and steel kilns, wooden sheds.

Tex., Dallas—Dallas Furniture Manufacturing Co., capital \$65,000, incorporated; Edgar L. Flippen, 2300 Cockrell St.

Tex., Houston—Furniture, etc.—American Construction Co., Esperson Bldg., reported, has contract for factory addition to Myers-Spalti Manufacturing Co., 2115 Runnels St., 5-story and basement, 140x150-ft., rein. concrete, steel and brick, fireproof; increase output 75%; \$225,000.

FIRE DAMAGE

Ark., Pine Bluff—Regal Meat Market and G. D. Smith Printing Co.'s building; loss \$25,000.

Ark., Pine Bluff—Dildy Auto Co., 10th and Main Sts.; loss \$12,000.

Ga., Rochelle—S. R. Fenn's residence.

Ky., Bloomfield—Bloomfield Loose Leaf warehouse; loss \$50,000.

Ky., Grayson—Treat Hotel building, loss \$12,000.

Ky., Murray—John Creekmuir's residence; loss \$6,000.

Ky., Rothwell—Post Office and Postmaster Buchanan's residence.

Ky., Tompkinsville—Miller Hotel, Emberton's Dry Goods Store, Bis Walden barber-shop, and others; loss \$75,000.

La., Ashton—Vacherie Sugar Factory,

owned by Dan Moressi and Robt. Burleigh, Jeanerette, La.; loss \$100,000.

La., Baton Rouge—Filter building of the Standard Oil Co. of Indiana.

La., Shreveport—West Louisiana Lumber Co.'s warehouse and office, 3930 Mansfield Rd.; loss \$15,000.

Md., Catonsville, Baltimore—Martin J. Whitts, residence, Wilkens Ave. near Maiden Choice Lane; loss \$15,000.

Md., Ellicott City—Mrs. John D. Mitchell's residence, Columbia Pike; loss \$20,000.

Mo., Brookfield—John Redding's residence, W. Dake St.; loss \$8,000.

Mo., Springfield—Ozark Poultry Supply Co. plant, 700 East Phelps St.; loss \$10,000 to \$15,000.

N. C., Charlotte—St. Luke's Lutheran Church, W. W. Scholtz, Sec., erect bldg., 1015 East Blvd.

N. C., Lumberton—Kites Bakery and adjoining store building; loss \$20,000.

Tex., Beville—Seed house of Hall Industries.

Tex., Dublin—Methodist Church; loss \$50,000. Address The Pastor.

Tex., San Marcos—Katy Store Co.'s store; S. Dykes, owner.

Tex., Taylor—Louis Valenta's grocery store, Main St., and others.

Va., Covington—Mission Grace Home for Boys.

Va., Millboro—F. F. Hepler's garage and warehouse, loss \$30,000.

Va., South Boston—Raiff's department store, Liberty Cafe, and others; loss \$190,000.

Va., Staunton—Higgs & Young's cooperage plant, loss \$17,000.

Va., Virgilina—High School building; loss \$10,000. Address School Bd.

Va., Westhampton, R. R. Sta., Richmond—Edgewater, residence of J. D. Carneal, Jr., off River Rd.; loss \$20,000.

W. Va., Kimball—Abe Kaufman store; loss \$15,000.

Churches

Ala., Auburn—Baptist Church call for bids for brick and frame building; \$50,000; 2 stories, 50x110; slate roof; Warren, Knight & Davis, Archts., Empire Bldg., Birmingham. See Want Section—Building Material and Equipment. 3-8

Ark., Harrison—First Baptist Church, W. J. Moore, Chmn. Bldg. Comm., has low bid at \$18,736 from R. B. Pace for church; C. H. Sudholter, Archt., 715 Joplin St., Joplin, Mo. 1-26

D. C., Washington—Protestant Episcopal Cathedral Foundation, Mount St. Albans, Rt. Rev. Jas. E. Freeman, D. D., Bishop of Washington, has \$50,000 gift for children's chapel on main floor of \$10,000,000 Washington Cathedral under construction; pipe organ; Frohman, Robb & Little, Archts., 140 Boylston St., Boston, Mass., and 16 Jackson Pl., Washington; Cram & Ferguson, Conslt. Archts., 248 Boylston St., Boston. 3-1

D. C., Washington—St. Paul's English Lutheran Church soon, probably first week in April, have plans refigured by original estimators for \$500,000 stone church, Sunday school, parish hall and parsonage, Ellicott and Everett Sts. N. W.; Frohman, Robb & Little, Archts., 140 Boylston St., Boston, Mass., and 16 Jackson Sq., N. W., Washington. 3-22

Fla., Gainesville—First M. E. Church, South, rejected bids for \$200,000 church and Sunday school; Hart, Freeland & Roberts, Archts., Ind. Life Bldg., Nashville, Tenn. 3-15

Ga., Atlanta—First Baptist Church, Col. B. L. Bugg, Chmn., Bldg. Comm., 710 Henry Grady Bldg., selected R. H. Hunt Co., James Bldg., Chattanooga, Tenn., as architects and Burge & Stevens, 101 Marietta Bldg., Atlanta, asso. architects, for \$400,000 building, Peachtree St. near Fifth St. 2-23

Ga., Atlanta—Shearith Israel, Isadore Borochoff, Pres., 305 Martin St., S. E., erect \$45,000 synagogue, Washington and Clark Sts.; auditorium seat 750; soon select architect.

Ga., Savannah—Ascension Lutheran Church, Rev. C. A. Linn, Pastor, raising \$40,000 for Sunday school bldg.

Ky., Louisville—Third English Lutheran Church, 1612 Story Ave., Rev. H. W. Han-shue, Pastor, having plans drawn by Otto D. Mock, 231 S. Fifth St., for \$125,000 church and Sunday school, 1946-56 Frankford Ave.

Ky., Louisville—Carlisle Avenue Baptist Church, Rev. Solomon F. Dowis, Pastor, 3603 Woodruff Ave., having plans drawn by Otto D. Mock, 231 S. Fifth St., for \$125,000 church and Sunday school, Taylor Blvd. and Carlisle Ave.

Miss., Lexington—Methodist Church erect \$40,000 brick building; 2½ stories, conc. floors; Brodie & Surman, Archts., 1315 Comer Bldg., Birmingham, Ala. Address L. E. Barr, Lexington. See Want Section—Building Material and Equipment. 2-23

Miss., Stanton—Presbyterian Church erect chapel. Address The Pastor.

Mo., Cape Girardeau—Christ Evangelical Church, W. J. Kies, Chmn., Bldg., Comm., plans \$50,000 building; work start about 18 months.

Mo., Caruthersville—Methodist Church raising \$50,000 for 2-story building. Address The Pastor.

N. C., Charlotte—Rural Trinity M. E. Church, Beatty's Ford Rd., J. M. Elliott, Chmn. Bldg. Comm., erect \$15,000 building; material let.

N. C., Winston-Salem—Greek Orthodox Church, 225½ Liberty St., John Campourakis, Chmn., Bldg. Comm., plans building.

Okl., Elk City—First Baptist Church, Rev. P. W. Shirley, Pastor, plans completed for \$35,000 building; brick and stone, 2 stories and part basement, pine floors and finish; Hawk & Parr, Archts., Cotton Exch. Bldg., Oklahoma City. 12-23

Okl., Oklahoma City—First Unitarian Church selected Smith & Walker, 80 Boyles-

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ark., Ola—Collins-Reeves Post No. 28, American Legion, considering erecting brick and frame auditorium; 1 story, 75x150 ft., wood floors, comp. roof.

Md., Baltimore—Scottish Rite Holding Co., J. Edw. Richardson, Pres., 19 E. Baltimore St., selected Clyde N. & Nelson Friz, Lexington Bldg., Baltimore, as architects, and John Russell Pope, 542 Fifth Ave., New York, consulting architect, for \$1,000,000 temple, Charles and 39th Sts.; probably limestone. 12-10-25

Miss., Jackson—Lamar Lodge No. 30, K. of P., erect lodge building.

Okl., Mangum—Ancient Free and Accepted Masons erect \$30,000 temple.

Tex., Amarillo—John B. Golding Post 1475, Veterans of Foreign Wars, erect home, Lincoln and Fifth Sts.; swimming pool, lockers, showers, etc., in basement; auditorium-gymnasium on first floor; 30 small apartments on two upper floors; Jas. Russell Scott, Archt., 14 Fuqua Bldg.

Bank and Office

Ala., Birmingham—Mason Dixon City Development Co., 2109 N. Fifth Ave., Birmingham, erect brick office bldg., Mason Dixon City, 20 miles from Birmingham; 1 story, 60x40 ft., built-up roof; Jacob E. Salie, Archt., Exch. Bldg., Birmingham.

Mo., St. Louis—Frank Yawitz, 2333 Pine St., plans \$150,000 to \$200,000 office building, 2340 Olive St.; fireproof, 6 stories.

N. C., Biltmore—W. A. McGeachy and Dr. S. B. Main erect \$35,000 building; Robt. L. Kane, Archt.

N. C., Spruce Pine—G. O. Pipp erect 3-story store and office building; 3 stories, steam heat; D. R. Beeson, Archt.-Constr. Supvr., Johnson City.

Tenn., Johnson City—Guaranty Bond Co., W. H. Logan, Mgr., Eagle Bldg., Main St., may erect bank building.

Tex., Brownwood—Citizens National Bank ready for bids about Apr. 12 for fireproof

bank and office bldg.; brick, stone and rein. conc., 5 stories, 50x100 ft., east stone trim, 1 elevator; David S. Castle Co., Archt., Alexander Bldg., Abilene. 2-23

Tex., San Angelo—H. B. Robb, 3853 Normandy St., Dallas, John D. Jones, San Angelo, and others, probably open bids about 10 days for 6-story theatre and office bldg.; \$250,000; furnishings, equipment, etc., \$75,000; theatre seat 2000; 74 offices above; Scott Dunne, Archt., Melba Bldg., Dallas. 3-22

Tex., San Antonio—National Bank of Commerce alter building; \$12,000.

Tex., San Antonio—McKenzie Construction Co., Contr., 716 Travis Bldg., receives bids Apr. 9 for marble, tile, terrazzo, millwork, sheet metal and roofing, and metal windows and doors for \$3,000,000 Smith-Young Bldg. for Smith Brothers Properties, Inc.; also date extended to Apr. 9 for elevators and elevator fronts; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg. 3-22

Tex., San Antonio—United Auto Assn., 1400 Grayson St., has low bid at \$18,195 from J. E. Dickey for office addition; Adams & Adams, Archts., Real Est. Bldg.; Homer M. Mathews, Engr., 805 Bedell Bldg. 3-22

W. Va., Charleston—Kanawha Valley Bank receives bids Apr. 9 at office Alfred C. Bos-som, 680 Fifth Ave., New York, for 20-story bank and office building, Capitol and Lee Sts.; steel, conc., brick; Chas. A. Haviland, Asso. Archt., Kanawha Bk. Bldg., Charleston; following firms estimating on general work, heating, plumbing or electrical work: Chas. T. Wills Co., heating, 286 Fifth Ave., Dwight P. Robinson Co., Inc., 125 E. 46th St., Starratt Bros., 101 Park Ave., James Stewart & Co., 17 E. 42nd St., all New York; Consolidated Engineering Co., 20 E. Franklin St., Riggs-Distler & Co., Inc., 216 N. Calvert St., J. Henry Miller, Inc., Eutaw and Franklin Sts., all Baltimore, Md.; Geo. A. Fuller Co., Munsey Bldg., James Baird Construction Co., both Washington, D. C.; John T. Wilson Co., Inc., Mutual Bldg., Wise Granite & Construction Co., 1903 E. Cary St., Doyle & Russell, Grace Am. Bldg., all Richmond, Va.; J. W. Cowper Co., Inc., Buffalo, N. Y.; Angle-Blackford Co., J. L. Crouse, both American

ton St., Boston, Mass., as archts. for \$100,000 bldg., 13th St. and Dewey Ave.; 34x70 ft.; auditorium seat 400. 1-19

Okla., Perry—Methodist Church. Chas. Christoph, member, Bldg. Comm., plans \$30,000 building.

S. C., Charleston—Hampstead Square Baptist Church, Rev. B. H. Waugh, Pastor, plans brick building to replace structure damaged by fire.

Tenn., Camden—First Methodist Church, E. F. Davidson, Chmn. Bldg. Comm., erect \$25,000 building; brick, 3 stories and basement, wood floors, comp. roof; Hubert T. McGee, Archt., 801 Fidelity Bk. Bldg., Memphis.

Tenn., Gallatin—Baptist Church open bids about May 1 for \$25,000 stone and brick Sunday school; 3 stories, 45x82 ft., wood floors, stone foundation, comp. roof; W. J. H. Wallace, Archt., 167 Eighth Ave., Nashville. Address L. S. Sedberry, 28 Winchester St., Gallatin. See Want Section—Building Material and Equipment. 3-22

Tenn., Memphis—First Presbyterian Church, Poplar Ave. and Third St., Rev. A. C. Dudley, Pastor, remodel building; \$75,000; J. Frazer Smith and H. M. Burnham, Archts., Jackson.

Tex., Alice—Methodist Church selected R. H. Hunt Co., James Bldg., Chattanooga, Tenn., and S. W. Life Bldg., Dallas, Tex., as architects for building.

Tex., Amarillo—Tabernacle Baptist Church, Rev. J. C. Sisemore, Pastor, erect \$60,000 building; brick, 100x93 ft.; auditorium and Sunday school each accommodate 1500.

Tex., Boerne—Protestant Episcopal Church, H. O. Adler, Chmn., Bldg. Comm., erect conc. and native stone bldg.; 1 story and basement, about 80x45 ft.; Herff & Jones, Archts., S. A. Loan & Trust Bldg., San Antonio.

Tex., Dallas—Oak Lawn Methodist Church, J. W. Blanton, Chmn., Bldg. Comm., having plans drawn by D. F. Coburn for \$50,000 Sunday school, Oak Lawn Ave. and Cedar Springs Rd.; auditorium seat 1200, baths, lockers. 2-2

Tex., Dublin—First Methodist Church rebuild structure noted burned at \$50,000 loss.

Tex., El Paso—First Christian Church raising funds for \$175,000 building. Address The Pastor.

Tex., Pampa—Baptist Church. Rev. D. H. Truhitte, Pastor, erect \$100,000 bldg.; steel frame, metal joist, wood floors and studs, 3 and 4 stories, 134x110 ft., rein. conc., clay tile and built-up roof; furnishings, equipment, etc., \$25,000; Will H. Lightfoot and Rabey Funk, Asso. Archts., Smith Bldg., Amarillo; final sketches ready. See Want Section—Building Material and Equipment. 3-22

Tex., McAllen—Church of the Nazarene, Rev. W. F. Rutherford, Pastor, erect \$15,000 frame and stucco building; 1 story and basement, 40x50 ft., conc. foundation, comp. roof; A. H. Woolridge, Archt.

Tex., Vicksburg—First Baptist Church, C. C. McDonald, Chmn., Bldg. Comm., erect \$10,000 unit of \$45,000 building; brick, 2 stories; C. H. Leinbach, Archt., Central Bk. Bldg., Dallas.

City and County

Ark., Tex., Texarkana—City of Texarkana, Ark., S. C. Nancarrow, Mayor, advises will be at least 60 days before contract is let for \$300,000 city hall; Witt, Selbert & Halsey, Archts., Texark. Nat'l Bk. Bldg., Texarkana, Tex. 3-24-27

Md., Rockville—Montgomery County Bd. of Commrs. may erect courthouse addition.

Miss., Belzoni—City selected Emmett J. Hull, Merchants Bk. Bldg., Jackson, as architect for \$20,000 city hall and fire dept. building. 2-23

Miss., Brookhaven—Lincoln County Bd. of Suprs. ready for bids about 1 week for rein. conc., brick and steel jail; \$35,000, 2 stories and basement, 36x50 ft., rein. conc. foundation, struct. steel and iron work, steel cages, comp. roof; Emmett J. Hull, Archt., Merch. Bk. Bldg., Jackson. 12-29

Mo., Cassville—City votes at April election on \$18,000 city hall-community bldg. bonds. Address City Council.

Miss., Gulfport—City, J. W. Milnor, Mayor, has completed plans by Shaw & Woleben for \$18,000 fire station; frame and stucco, 1 story.

Mo., Kansas City and Independence—Jackson County votes May 8 on \$5,000,000 bonds for 2 courthouses, one in Kansas City and one in Independence. Address County Commrs.

Okla., Muskogee—City, Neal Wimmer, Mayor, selected H. H. Niemann, Barnes Bldg., and L. L. Howenstine, 2705 Oklahoma St., as architects for \$400,000 city hall. 3-1

Okla., Tecumseh—Chambers of Commerce of Tecumseh and Shawnee interested in \$250,000 bond election for Pottawatomie County courthouse.

Tenn., Brownsville—Haywood County receives bids Mar. 29, to let contract Apr. 7, to remodel and erect addition to courthouse; brick and conc.; R. A. Heavner, Archt., Goodwyn Inst. Bldg.

Tex., Austin—City, P. W. McFadden, Mayor, will vote on \$4,250,000 bonds, including \$250,000, fire stations; \$150,000, library; \$100,000, market; \$50,000, hospital; date not determined.

Tex., Bay City—City, Pat Thompson, Mayor, having plans drawn by Morris & Noonan, Archts.-Engrs., 801 Bldrs. Exch. Bldg., San Antonio, for \$30,000 city hall and fire station; brick, hollow tile, rein. conc. and stucco, 1 story. 3-22

Tex., Houston—City, O. F. Holcombe, Mayor, receives bids in duplicate Apr. 11 at office City Sec. for superstructures of \$400,000 Farmers Market; plans from J. C. McVea, City Engr. 2-2

Tex., Houston—City, O. F. Holcombe, Mayor, appointed committee of 9, including B. F. Bonner, M. E. Foster, Judge W. O. Huggins, to select architect to supervise erection of \$1,000,000 city hall.

Tex., Laredo—City rejected bids for Heights fire station; soon call new bids. Address City Council.

Tex., Texas City—City, E. L. Noble, Mayor, receives bids April 9 to furnish and equip city hall and auditorium; Page Bros., Archts., Austin Natl. Bank Bldg., Austin.

Dwellings

Ala., Birmingham—Rufus Duvall, 3135 Norwood Blvd., erect brick veneer residence, Forrest Park; 1 story, 42x62 ft., comp. roof, steam heat; Jacob E. Salie, Archt., Exch. Bldg.

Ala., Birmingham—W. T. Shannon, 4322 Avenue C, erect brick veneer residence, 4200 S. Seventh Ave.; 1 story, tile roof; J. G. Ringer, Archt., 512 Martin Bldg.

Ala., Birmingham—Fred J. Shepherd, Amer. Tr. Bldg., erect brick veneer residence, Redmont Park; 2 stories, tile roof, steam heat; Jacob E. Salie, Archt., Exch. Bldg.

Ala., Birmingham—A. W. Smith, 2036 Twenty-sixth St., Ensley, erect brick veneer, stucco and stone residence, Ridge Drive, Rockridge Park; 2 stories and basement, 90x37 ft.; Miller & Martin, Archts.; J. A. Lewis, Engr., both Title Guarantee Bldg.

Ala., Hamilton—J. B. Hodges erect brick veneer residence; 1 story, oak floors, shingle roof; Ye Planry, Archt., 1713½ Live Oak St., Dallas, Tex.

Ala., Montgomery—W. S. Pitts erect 4 dwellings, Southview St.; \$16,000.

Ark., England—Ben Morris erect brick veneer residence; 1 story, oak floors, tile roof and bath, steam heat; Ray H. Burks, Archt., Home Ins. Bldg., Little Rock.

Ark., Little Rock—Waldo Tiller, Rector Bldg., erect brick veneer residence and garage; 2 stories, oak floors, tile roof; John P. Almand, Archt., Boyle Bldg.

D. C., Washington—Chas. E. Dillon has drawn plans for 2 dwellings, 4808-12 Thirtieth St., N. W.; \$40,000.

D. C., Washington—Eaton & Co., 1010 Vermont Ave., N. W., erect \$20,000 brick dwelling, 2901 Cortland Place, N. W.; 2 stories; L. E. Shottes, Archt.

D. C., Washington—W. O. & N. T. Embrey, both 406 Rittenhouse St., N. W., erect 2 brick dwellings, 30-32 Madison St., N. E.; 1 story; \$14,000.

D. C., Washington—G. E. MacNeil, Archt., 1119 17th Ave., N. W., has drawn plans for dwellings, 3722-24 Van Ness St., 3004-26-34 Forty-fifth and 4517-23-29-35 Hawthorne St., N. W.; \$85,00.

D. C., Washington—Benno Basch erect \$12,000 residence, 4933 Thirtieth Place, N. W.; brick and tile, 2 stories.

D. C., Washington—Cooley Bros., 927 15th St., N. W., erect 4 brick dwellings, 3610-14-18-22 Patterson St., N. W.; 2 stories; \$40,000.

D. C., Washington—Eaton & Co., 1010 Vermont Ave., N. W., erect 3 brick dwellings, 3635-39 Windom Place and 4321 Thirtieth St., N. W.; 2 stories; \$27,000.

D. C., Washington—Hoffman Bros. erect 6 brick dwellings, 4300-10 Reno Rd., N. W.; 2 stories; \$15,000.

D. C., Washington—J. C. Phillips, 859 Van Buren St., N. W., has drawn plans for 2 dwellings, 3517 Livingston St., N. W., and 3335 Military Rd., N. W.; \$10,000.

D. C., Washington—Chas. D. Sager erect 6 brick dwellings, 4300-10 Reno Rd., N. W.; 2 stories; \$36,000.

D. C., Washington—A. F. Thelander, 1206 18th St., N. W., has drawn plans for \$12,000 dwelling, 4930 Thirty-ninth Place, N. W.

D. C., Washington—W. Walter Vaughan, 12th and Upshur Sts., N. E., erect 14 dwellings, 1004-16 and 1005-17 Urell Place, N. E.; 2 stories, brick and cinder block, garages; \$116,400.

D. C., Washington—Geo. T. Santmyers, Archt., 917 15th St., N. W., has drawn plans for 13 dwellings, 1820-44 Massachusetts Ave., S. E.; \$65,000.

Fla., Jacksonville—W. E. Bostick, 009 Davis St., erect \$10,000 residence, 4703 Astral St.; brick veneer, 1 story.

Fla., Miami Beach—Geo. J. Scherer erect \$25,000 residence, 5533 N. Bay Rd.; 65x58 ft.

Ga., Atlanta—Mrs. Martha S. Walden, 229 Second Ave., erect 2 dwellings, 35-44 Schreve Ave., N. E.; 1 story, 6 rooms and bath, \$10,000.

Ga., Atlanta—E. C. Chastain, 336 Angier Ave., N. E., erect 2 dwellings, 150 Norwood St., N. E., and 2064 Hardee St.; brick veneer, 1 story; \$11,000.

Ga., Atlanta—Judge John D. Humphries, Hapeville, erect \$10,000 brick veneer residence, 914 Rock Springs Rd., N. E.; 1 story.

Ga., Augusta—Walter Rockefeller Comfort, New York and Augusta, erect \$40,000 residence, Forrest Hills, Wrightsboro Rd.; Georgian type, colonnade front, rough face brick, 2 stories and basement, tile, marble and stone work, slate roof, steam heat; Willis Irvin, Archt., S. F. C. Bldg., Augusta.

Ga., Augusta—J. H. Wiss, Chicago, Ill., and Augusta, erect \$40,000 residence; brick, 2 stories and basement, hardwood and tile floors, slate roof, steam heat; Willis Irvin, Archt., S. F. C. Bldg., Augusta.

Ga., Columbus—T. G. Reeves, 1130 Fifth Ave., Mgr., Coca Cola Bottling Co., erect \$25,000 residence, Chatham Drive; 2 stories and basement, hardwood floors, comp. roof; T. Firth Lockwood, Archt., Murrah Bldg.

Ga., Rome—C. B. Willingham has low bid for \$20,000 residence from Gilbert Beers, Bona Allen Bldg.; Lockwood & Poundstone, Archts., Forsyth Bldg., both Atlanta. 2-16

La., Lafayette—Henri Bendel, 10 W. 37th St., New York, plans \$250,000 estate, Bayou Vermillion; Spanish type residence, 2 boat houses, 2 boats, dairy, outhouses, landscaping, etc.; contract for \$7500 conc. post and wire panel fence let to Hopkins Bros.

La., New Orleans—Nick Tusa, 7720 Jeanette St., erect bungalow.

La., New Orleans—Fred Hardie, 5218 St. Charles Ave., erect 2 duplexes, Dufossat St., near St. Charles Ave.; 2 stories, slate roof, \$24,000; Ed D'Armas, Archt.

La., Shreveport—Dr. C. L. Larue erect \$30,000 residence, McWilder subdivision; hollow tile and stucco, 2 stories, 9 rooms; Edw. F. Neild, Archt., City Bk. Bldg.; drawing plans.

La., Shreveport—Mrs. J. H. Rowland erect \$15,000 residence, Centenary Blvd. and Jordan St.; 6 rooms, 1 story, brick veneer, tile baths; Edw. F. Neild, Archt., City Bk. Bldg.

Md., Baltimore—G. M. Fava, 18-20 E. Pratt St., erect \$18,000 residence, 1600 Roland Ave.; 2½ stories, brick.

Md., Baltimore—Hampden Building Co. erect 8 brick dwellings, 4000 block Hickory Ave.; 2 stories; \$16,000.

Md., Baltimore—Milburn Realty Co., 1320 N. Charles St., erect 13 brick dwellings, 20th and Fleet Sts.; 2 stories; \$26,000.

Md., Baltimore—D. Albert Slade, Fitch Ave. and Belair Rd., erect 6 brick dwellings, 5200 block Eugene Ave.; 2 stories; \$12,000.

Miss., Hattiesburg—T. Lee Prator erect face brick veneer residence; 1 story, pine, oak and tile floors, 2 baths, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Miss., Meridian—I. C. Walker, care Central Service Station, erect \$12,000 brick veneer residence, Magnolia Drive; 1 story and basement, 85x69 ft., oak and pine floors; R. C. Springer, Archt., Rosenbaum Bldg.

Miss., New Albany—R. W. Hill erect face brick veneer residence; 1 story, oak, pine and tile floors, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Mo., Clayton, St. Louis—Harvey S. McKay erect \$23,000 residence, Wydown Terrace; 45x45 ft.

Mo., Kansas City—Westbrook Investment Co., 7508 Troost St., erect 4 frame dwellings, 920-30 E. 76th St. Terr.; 1 story, 24x32 ft.; \$12,000.

Mo., Kansas City—B. D. Morley, 722 Dwight St., purchased homesite, Mission Hills.

Mo., Kansas City—Fred W. Zurn, Bldr., 435 Rialto Bldg., purchased 2 homesites, 1200 block W. 57th St. Terrace.

Mo., Macon—Theodore Gary, 1431 Telephone Bldg., may erect residence; Edw. Buehler Delk, Archt., Meyer Blvd. and Ward Pkwy., both Kansas City.

Mo., St. Louis—McDonald & Condie, Archts., 262 Field Bldg., 502 N. Taylor Ave., completed plans for brick and stucco dwelling, 3875 Kingsbury Place; 2½ stories and basement, 46x54 ft., tile bath and wainscoting, asbestos shingle roof, vapor heat.

N. C., Charlotte—Graham Bros. erect \$10,000 dwelling, 2406 Sherwood Ave.; brick veneer, 2 stories.

N. C., Charlotte—T. S. McPheeters erect 5 frame dwellings, Selwyn Park; 1 story; \$10,000.

N. C., Durham—T. E. Crisp, Roxboro Rd., erect 2 dwellings, Forest Hills; frame and stucco, 6 and 7 rooms; \$14,000.

S. C., Greenville—W. B. Ellis, Paris Mountain, erect \$12,000 to \$15,000 residence, Cleveland Park.

S. C., Whitmire—Aragon-Baldwin Mills erect 25 operatives' dwellings; J. E. Serrine & Co., Engrs., Greenville, to let contract. 3-22

Tenn., Dyersburg—Robert & Co., Inc., Archt.-Engrs., Bona Allen Bldg., Atlanta, Ga., drawing plans for 100 mill dwellings.

Tenn., Henderson—W. C. Woodard erect \$10,000 brick veneer residence; 1 story and basement, 68x48 ft., hardwood floors, tile bath, hot air heat; Luther Parham, Archt., 586 N. Hays Ave.

Tenn., Jackson—Lyle L. Curtis erect brick, stone and half timber residence; 2 stories, and basement, 100x52 ft., oak floors, tile roof and baths; J. Frazer Smith & H. M. Burnham, Archts., Goodwyn Inst. Bldg., Memphis.

Tenn., Knoxville—Wm. LaRue erect \$18,000 duplex, Emoriland Blvd.; brick veneer, hardwood floors; J. Leon Montgomery, Contr., Cherokee Dr.

Tenn., Memphis—Dr. J. W. Munk, Bk. of Commerce Bldg., erect brick veneer residence; 2 stories and basement, 80x65 ft., oak floors, tile roof and bath, steam heat; garage and servants' quarters; Regan & Weller, Archts., Dermon Bldg.

Tenn., Memphis—Mrs. R. T. Richardson, R. F. D. No. 4, erect face brick veneer residence; 1 story, oak floors, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Tenn., Nashville—Roscoe Bond, care Tisdale, Stone & Pinson, Archts., Ind. Life Bldg., erect brick, conc. and stone tile residence, Belle Meade; 1 story and basement, 59x17 ft., with 15x10-ft. wing; tile bath, asbestos shingle roof; bids in.

Tenn., Nashville—Fred Goldner, Alexandria Apt., erect brick veneer residence, Woodlawn-Wilson Blvd.; 1 story and basement, 54x60 ft., hardwood floors, asphalt shingle roof, steam heat; O. J. Billis, Archt., 62 Arcade St.; bids in.

Tenn., Nashville—H. G. Swain, care H. G. Swain & Co., erect 2 brick veneer dwellings; 1 story, 5 and 6 rooms, pine and oak floors; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Tex., Austin—C. E. Barrett, 903 W. 26½ St., erect \$45,000 residence, Woolridge Ave., Pemberton Heights; brick veneer, tile floors, slate roof, garage and servants' quarters; Adams & Adams, Archts., 1010-15 Real Est. Bldg., San Antonio.

Tex., Brady—Jas. Brooks has low bid at \$19,916 from W. M. Harrison & Son for residence; Beverly W. Spillman & Beverly W. Spillman, Jr., Archts., Alamo Bk. Bldg., San Antonio. 3-15

Tex., Dallas—Ernest Hundahl, 1915 Euclid St., erect \$10,000 residence, 5907 Swiss St.; brick veneer, 12 rooms.

Tex., Dallas—E. E. Wilson, 2204 McKinney St., erect \$14,000 residence, 3816 Turtle Creek; brick veneer, 2 stories.

Tex., Fort Worth—L. G. Bundock erect \$15,000 brick veneer residence, 2701 University St.

Tex., Fort Worth—E. L. Dreifenhough erect 2 dwellings, 3501-05 W. Seventh St.; brick veneer and stone veneer; \$18,750.

Tex., Fort Worth—Mrs. Mable Latimore erect \$16,000 brick veneer residence, Forest Park Blvd.

Tex., Fort Worth—Ned Lydick, 2035 Glencoe Ter., erect \$27,000 brick veneer residence, 2201 Windsor Place.

Tex., Fort Worth—Nix Land Co. erect 6 brick veneer dwellings, 300 block Blevins and 3528 Locke Sts.; \$38,500.

Tex., Houston—A. O. Fisher erect 4 brick veneer duplexes, 1200 block Link Rd.; 2 stories; \$40,000.

Tex., Houston—G. T. Brown, 8325 Medina St., erect 3 brick veneer dwellings and garages, 1900 block Lexington St.; 2 stories, 6 rooms; \$21,750.

Tex., Houston—Roy B. Nichols, First Nat'l Bk. Bldg., erect 2 brick veneer dwellings, 9138-40 E. Evenue Q; \$20,000.

Tex., Houston—D. O. Kubricht, 7421 Ave. F, erect \$10,000 brick veneer residence and garage, 1808 W. Main St.; 2 stories, 10 rooms.

Tex., Houston—J. L. Taylor, 1301 Banks St., erect 3 frame dwellings and garages, 3011-15 Rice St.; 4 rooms; \$33,000.

Tex., Houston—J. J. Bryan, 402 W. Drew St., remodel and enlarge frame house, 402 Drew St.; \$10,000.

Tex., Houston—J. L. Bartlett erect 3 brick veneer duplexes and garages, 1905-09-13 Marshall St.; 12 rooms, 2 stories; \$42,000.

Tex., Houston—Ed Allison erect duplex and garage, 2321 W. Rosewood St., Alameda Court addition; brick veneer, 10 rooms, 2 stories.

Tex., McAllen—W. L. Hart erect hollow tile and stucco residence; 1 story and basement, 12 rooms; plans ready about Apr. 2; A. H. Woolridge, Archt.

Tex., Mercedes—Don Varner erect \$15,000 residence; brick, 2 stories, 8 rooms slate or shingle roof, conc. foundation; Birger A. Elwing, Archt., Harlingen.

Tex., Pharr—M. R. Gore erect 2-story frame residence; Robt. L. Vogler, Archt., Edinburg.

Tex., San Antonio—John P. Morris erect \$14,000 duplex, Woodlawn Ave.; 10 rooms.

Tex., San Antonio—Robt. S. Michael, 112 Soledad St., erect brick veneer and hollow tile residence, Oakmont Court; 8 rooms, 2 stories; Robt. B. Kelly, Archt., Milam Bldg.

Tex., San Antonio—Wenceslao Martinez, 709 S. Frio St., erect \$15,000 duplex, Woodlawn Ave.; 8 rooms.

Tex., San Antonio—Raymond Edwards, Gunter Bldg., erect frame Colonial type residence, Terrell Hills and Elizabeth Rd.; 2 stories, 44x53 ft., conc. floors; Albaugh & Steinbomer, Archts., 941 Austin St.

Tex., San Antonio—H. W. Ferrill, Adkins, R. R. No. 2, Box No. 23, plans frame, stucco residence, Topeka Blvd.; 5 rooms.

Tex., San Antonio—E. F. Schuchard, 528 King William St., has low bid from Wilkins & Rux, 1016 Gladstone St., for residence; Giles & Beckmann, Archts., Moore Bldg. 3-22

Tex., Water Valley—L. C. Clark erect Spanish type brick, hollow tile and stucco ranch house; 1 story and basement, about 32x58 ft., hardwood floors, heating plant; Roy K. Hamberlin, Archt., 212 Ricker & Dodson Bldg., San Angelo, and Bldrs. Exch. Bldg., San Antonio.

Government and State

Ala., Anniston—Government expend \$2,169,000 over 5-year period for permanent buildings, Camp McClellan, Col. Lochlin W. Caffey, Commr.

Fla., Miami—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receiving bids for site for post office.

Ga., Fort Benning—Constructing Quartermaster, Lieut. W. M. Allison, rejected bids for Sections F and G of Cuartel Barracks and Wards 1 and 2 at hospital, Fort Benning; call for new bids about Apr. 1. 3-22

Mo., Kansas City—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids Apr. 13 for site, about 335x375 ft., for Federal building. 3-22

Tex., Fort Sam Houston, San Antonio—Constructing Quartermaster, Capt. A. W. Parker, receives bids Apr. 20 for constructing and completing Infantry Battalion barracks, including utilities thereto; \$300,000 available.

Tex., Fort Worth—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids Apr. 19 for site for post office.

Hospitals, Sanitariums, Etc.

Fla., Fort Pierce—City Comm. may erect \$50,000 hospital.

Ga., Savannah—Charity Hospital, Rev. J.

S. Braithwaite, Sec., Bd. of Trustees, raising \$75,000 to complete hospital.

La., Alexandria—Methodist Hospital Bd., care Rev. Claud K. Smith, Pastor, Pineville Methodist Church, plans hospital.

Md., Crownsville—Crownsville State Hospital, Dr. Robt. Winterode, Supt., erect 100-bed addition; possibly brick or fireproof constr.; details not determined; \$100,000 available; Jos. Evans Sperry, Archt., Calvert Bldg.; Jas. Posey, Engr., Lexington Bldg., both Baltimore. 3-22

Miss., Jackson—State Hospital Removal, Improvement and Land Sale Comm., R. L. Brown, Sec., Box 24, receives bids Apr. 14 for elec. feed lines from transformers to bldgs. of \$4,500,000 Mississippi Insane Hospital; plans from N. W. Overstreet, Archt., Miss. Fire Bldg.

Mo., St. Louis—St. Louis Medical Society, 3839 Lindell St., interested in \$2,500,000 bond issue for tuberculosis wards at Koch Hospital and City Hospitals One and Two.

Okla., Muskogee—United States Veterans Bureau, Constr. Div., Washington, D. C., receives bids Apr. 17 for interior alterations, receiving and main buildings, U. S. Veterans Hospital.

S. C., Columbia—Masonic Grand Lodge, Wm. A. Giles, Grand Master, Graniteville, appropriated \$10,000 for unit at State Park Tuberculosis Sanatorium.

S. C., State Park—State Bd. of Health, Dr. Wm. Eggleston, member, Bldg. Comm., Columbia, considers erecting additional unit, State Tuberculosis Sanatorium.

Tenn., Oakville—Oakville Memorial Sanitarium, L. W. Hughes, has low bid from B. W. Cocke & Son, 63 S. Third St., for additions to hospital; \$200,000; Jones & Furringer, Archts., Porter Bldg., both Memphis.

Tex., Austin—City will vote on \$50,000 hospital improvement bonds. See Buildings Proposed—City and County.

Tex., Austin—Following contractors estimating on \$80,000 addition to city hospital, bids Apr. 5, Adam R. Johnson, City Mgr.; General, H. E. Wattinger, 401 Paul St.; J. J. Wattinger, 812 Patterson St.; A. A. Mundt, 812 W. Sixth St.; J. R. Johnson, Third and Red River Sts.; J. R. Blackmore, 26th and Rio Grande Sts.; Richard Schmidt, 59 East Ave.; C. W. Moore, 609 W. 16th St.; J. I. Knappe, 305 E. Eighth St.; W. A. Darby, 2905 West Ave.; plumbing, heating and wiring, J. O. Andrewarthe Co., 105 E. Ninth St.; R. F. Bacon, Inc., 409 W. Sixth; John L. Martin, 410 Congress Ave.; Fox-Schmidt Co., 415 W. Sixth St.; Donnelly & White, 204 W. Third St.; Harper & Linscomb, 204 W. 13th St.; H. F. Kuehne, Archt., 824 Littlefield Building. 3-22

Tex., Delhart—Kerr & Walsh, Archts., Amarillo Bldg., Amarillo, drawing plans for \$75,000 first unit of Catholic Hospital; fireproof, brick, 4 stories.

Hotels and Apartments

Ark., Forrest City—Mrs. N. B. Rice soon let contract for apartment, Carroll Woods addition.

Ark., Little Rock—Leonard Johnson, Newport, erect \$10,000 apartment, 1523 W. Eighth St.; brick veneer, 88x40 ft., 2 stories, comp. roof, oak floors.

D. C., Washington—Mrs. Ada Kressin, 4400 18th St., N. W., erect \$11,000 apartment, 804 23rd St.; brick, tile, 2 stories.

D. C., Washington—Lewis Giles, Archt., 1200 U St., N. W., has plans for \$11,000 apartment, 804 23rd St.

D. C., Washington—H. B. Caldwell erect \$35,000 apartment, 816 Potomac Ave.; brick, conc., 4 stories.

Fla., Jacksonville—Mrs. Lucie P. Jorgenson erect \$14,000 apartment, Pine Grove Ave.; conc., 2 stories.

Fla., Miami Shores—Home Builders Co., Seybold Bldg., W. J. Mulhall, purchased apartment, Grand Concourse, will complete, \$100,000.

Fla., Tampa—J. M. Harvey Investment Co., J. M. Harvey, Pres., 719½ Florida Ave., erect \$150,000 hotel and business building, Lafayette St.; Old English type, steel, brick, 20,000 sq. ft. floor space, 14 shops, 60 rooms; Merton Mann, Archt., 112 Cass St., and R. E. Jesson, Asso. Archt. 2-2

Ky., Louisville—C. W. Reeser, 2203 Maryland Ave., erect \$10,000 apartment, 4112 W. Market St.; brick veneer.

La., Monroe—N. Kallil & Son, 439 Desaird St., erect \$200,000 hotel, Desaird and Fifth Sts.; fireproof, brick, conc., 125 rooms, 40x120 ft.; W. Smith and Asso., Archts., Ouachita Bk. Bldg.

Miss., Jackson—N. W. Overstreet, Archt.,

Miss. Fire Ins. Co. Bldg., drawing plans for \$130,000 apartment, Northwest and Grif-fith Sts.; rein. concrete, face brick, stone trim, 3 stories, 82x164 ft., steam heat.

Mo., Clayton, St. Louis—John F. Luebke erect \$45,000 apartment, De Mun Tract; brick, 92x30 ft.

Mo., Joplin—W. H. Landreth, 536 N. Wall St., remodel apartment, \$18,000.

Mo., Kansas City—Dr. W. O. Bye, 1329 Mannheim Rd., erect \$85,000 apartment, 3121 Harrison St.; 4 stories.

Mo., St. Louis—Frank A. Hueser, 4534 Fair Ave., drew plans for \$15,000 apartment; brick, 2 stories and basement, 28x50 ft., slate roof, stone foundation.

Mo., St. Louis—Gordon-Horen Realty Co., 906 N. Grand Ave., erect \$40,000 apartment, Kossuth and Gano Sts.; brick, 2 stories and basement, 56x121 ft., comp. roof, stone foundation; O. J. Popp, Archt., 1528 Arcade Bldg.

Mo., St. Louis—Gill & Jackson, 705 Market St., drawing plans for \$12,000 apartment, Queens Ave.; brick, 2 stories, 24x43 ft., comp. roof, hardwood floors.

Mo., St. Louis—A. Piper, 4045 Enright Ave., erect \$10,000 apartment, 4015 Enright Ave.; brick, 2 stories, 27x49 ft., comp. shingle roof, hardwood floors, stone foundation.

Mo., St. Louis—E. H. Kamp erect \$12,000 apartment, 5069 Wells Ave.; brick, 2 stories and basement, 38x42 ft., comp. roof; Eugene H. Paulus, Archt., 4955 Northland Place.

Mo., St. Louis—Marquette Construction Co. erect \$10,000 apartment, brick, 2 stories and basement, 24x45 ft., comp. roof, hardwood floors, rubble foundation; C. E. Etz, Archt., both 110 N. Seventh St.

Mo., St. Louis—Progress Building Co. erect brick apartment; 3 stories and basement, rubble foundation, hardwood floors, comp. roof, terra cotta trim; C. E. Etz, Archt., 110 N. Seventh St.

Mo., St. Louis—R. Sangers, 3930 Dover Place, erect 2 apartments, Ellenwood Ave.; brick, 2 stories, 37x59 ft., comp. roof; \$25,000.

Mo., St. Louis—Valentine Kolodziez, 3210 Neosho St., erect \$10,000 apartment, 4754 Minnesota Ave.; brick, 2 stories, 18x48 ft.; hardwood floors.

Mo., St. Louis—C. D. Doerfler, 4639 Oregon Ave., erect \$14,000 apartment, Oregon Ave.; brick, 2 stories and basement, 36x46 ft., comp. roof, hardwood floors.

Mo., St. Louis—J. J. Kjar, 4762 Northland St., erect 2 tenements, Queens St.; brick, 2 stories, 22x42 ft., slate shingle roof; \$12,000.

Mo., St. Louis—McKelvey-Carter Co., A. H. Carter, Int. Life Bldg., erect \$1,250,000 apartment, 4630 Lindell Blvd.; 15 stories, 125x246 ft.

Mo., University City, St. Louis—Moresie-Prange, 3119 N. Grand Blvd., erect \$12,000 apartment, 7207 Amherst Ave.; Nolte & Neuman, Archts., 614 Fullerton Bldg.

N. C., Asheville—C. C. Millard, 81 Edgemont St., remodel 3-story conc. and brick building, Walnut and Lexington Ave., into 50-room hotel; and erect adjoining apartment; rein. conc., brick, steel, 6 stories, 100 rooms, 70x100 ft., built-up roof, sprinkler system, elevators; \$300,000.

N. C., Charlotte—A. C. Smith, Providence Rd., erect 2-story apartment, Vail Ave. and Caswell Rd.; brick, stone; Willard G. Rogers, Archt., Latonia Bldg.

N. C., Charlotte—J. C. Bomar, 1015 W. Trade St., erect \$22,000 apartment, 303 S. Summit Ave.; brick, frame, 2 stories.

Okl., Crescent—Crescent Hotel Co. erect \$110,000 hotel; brick, stone, rein. conc., fireproof, 5 stories, 50x90 ft.; R. W. Shaw, Archt., Masonic Temple Bldg., Enid.

Okl., Oklahoma City—Bonnenberger Bros., S. W. Nat'l Bk. Bldg., erect \$15,000 apartment; brick, 2 stories.

Tenn., Memphis—Joe Lazaroy, 803 Maury St., erect \$35,000 apartment; brick veneer, 2 stories and basement, oak floors, comp. roof; Alsop & Callahan, Archts., U. & P. Bank Bldg.

Tenn., Memphis—J. J. Mackey, 1119 N. Parkway, erect two \$15,000 apartments, 331-337 N. Waldran St.

Tex., Corpus Christi—L. V. Smith erect \$14,000 apartment, 502-04 Morgan Ave.; frame, stucco, 64.40 ft.

Tex., Corpus Christi—J. M. Flanagan erect 2-story apartment, S. Broadway; frame, stucco, L shape, 140x77 ft., conc. foundation; Wm. J. Westfall, Archt., both Chaddeek Bldg.

Tex., Dallas—Fred Schrock, erect \$22,000 hotel, 4028-30 Bryan St.; 48 rooms.

Tex. Fort Worth—C. A. O'Keefe Properties,

909½ Throckmorton St., erect \$750,000 hotel, Fifth and Main Sts.; 100x100 ft., 15 stories, 300 rooms; Mauran Russell & Crowell, Chemical Bldg., St. Louis, Mo., and Elmer G. Withers, 1308 Dorothy Lane Fort Worth, Asso. Archts., 3-15

Tex., Houston—Bell Construction Co., 3511 McKinney St., C. C. Bell, Jr., Pres., erect \$100,000 Gramercy Gables apartment, Cotswold Court; English type, 3 stories, 80x215 ft.

Tex., Junction—A. E. Loeffler erect addition to hotel; 2 stories, 20 rooms, conc., stucco, east stone trim; Adams & Adams, Archts., 1010-15 Real Estate Bldg., San Antonio.

Tex., San Antonio—J. R. Woffard erect \$18,000 apartment, Craig Place.

Tex., San Antonio—Perry W. Rathbun erect \$125,000 apartment, Nacogdoches St.; 2 stories, 40x164 ft., 20 suites.

Tex., San Antonio—A. Weiss erect apartment, Broadway and Katherine Court; frame, stucco, tile roof, plastered interior; Kelwood Co., Archts., Travis Bldg.

Va., Portsmouth—North Court Apartment Corp. has low bid at \$32,333 from E. E. Weddle & Co., Board of Trade Bldg., for brick apartment, North St.

Va., Richmond—Rosewood Construction Co., Amer. Nat'l Bk. Bldg., P. J. Beattie, Pres., erect \$1,000,000 Westhampton Court apartment hotel, Carey St. Rd.; fireproof, Georgia Colonial type, Richmond limestone, 6 stories; W. Duncan Lee, Archt., Travelers Bldg.

Miscellaneous

Ark., Waldo—Waldo Investment Co. erect 2-story brick building, 50x80 ft.; occupied by Gay Oil Co. and Masonic Lodge.

Ga., Tifton—Woman's Club erect \$50,000 club building; brick, 2 stories and basement, stone trim, comp. roof, hardwood floors; Edwards & Sayward, Archts., 101 Marietta St., Atlanta.

Md., Cumberland—Modern Park Development Co. purchased 100 acres, Baltimore Pike and Mason Rd., for cemetery; erect rest rooms, office and mortuary chapel, Grecian type; grey Bedford Indiana limestone; H. M. Muma, Parkersburg, W. Va., in charge of construction.

Okl., Tulsa—Electricians Union Local Lodge No. 584, erect \$35,000 club building, fireproof; H. H. Mahler & Co., Archt., 204½ E. Third St.

S. C., Spartanburg—Woman's Club of Spartanburg, Mrs. Wm. Poor, V.-Pres., plans clubhouse, Park Hills.

Tex., Catarina—Mich-Tex-Farms, Inc., erect farm buildings; Will N. Noonan Co., Archt., Builders Exchange Bldg., San Antonio.

Tex., Christobal—T. J. Percifull erect \$28,500 bathhouse, State Highway; conc., 81 x46 ft.

Tex., Edinburg—Spalding & Klopston construct tourist camp, 10 cottages; \$10,000; LeRoy Lane, Archt.

Tex., Houston—Houston Club, Wm. Strauss, Pres., Chronicle Bldg., plans club building.

Railway Shops and Terminals

Fla., West Palm Beach—Seaboard Air Line Railway Co., W. D. Faucette, Ch. Engr., Norfolk, Va., erect \$10,000 station, Marion Blvd.; Spanish type; Harvey & Clark, Archts., 307 S. Olive St.

Ga., Macon—Central of Georgia Rwy. Co., C. E. Weaver, Ch. Engr., Savannah, erect station; brick, 1 story, comp. roof.

Tex., Fort Worth—Texas and Pacific R. R., E. F. Mitchell, Ch. Engr., may erect passenger terminal, 8-story freight terminal and other buildings; proposition contingent on agreement of other companies. 7-28

Tex., Harlingen—American Railway Express Co., St. Louis, Mo., reported, receive new bids (old bids rejected) to erect express stations at both Harlingen and Brownsville.

Schools

Ala., Auburn—Delta Sigma Phi and Alpha Tau Omega Fraternities, each call for bids about 2 weeks for fraternity houses; Alabama Polytechnic Institute; brick veneer on frame, 2 stories, 50x125 ft., oak, pine, cement floors, comp. shingle roof, conc. foundation; Warren, Knight & Davis, Archts., Empire Bldg., Birmingham. See Want Section—Building Material and Equipment. 3-22

Ala., Birmingham—Bd. of Education, D. E. McKinley, Mgr., receives bids Apr. 13 for following: J. L. M. Curry School, East Lake, 3 stories, brick and stone; Robinson

School addition, East Lake; Central Park School addition; bids on one or more buildings; separate bids on: (1) general work; (2) plumbing, sewerage and gas fittings; (3) heating and ventilation; (4) electric work; Warren Knight & Davis, Archts., Empire Bldg., Birmingham; Wm. B. Ittner, Inc., Const. Archt., Bd. of Education Bldg., St. Louis, Mo.

Ala., Dothan—City voted \$130,000 school bonds; erect elementary school and improve others. Address School Bd.

Ala., Oneonta—Susan Moore High School erect \$42,000 school; brick, hollow tile, 1 story; Underwood Bailey, Archt., 2850 S. 18th St.

Ala., Montgomery—Bd. of Trustees of Alabama Training School for Girls, expend \$100,000 for additions and improvements; include brick school and auditorium, repair hospital and other buildings; convert administration building into dormitory.

Ark., Forrest City—School Bd. soon let contract for athletic building for high school.

Ark., Jonesboro—Bd. of Trustees Special School Dist. No. 58 receives bids Mar. 31 for reconstruction of Valley View School; plans from E. J. Wolpert, Archt., 305½ Main St.

Fla., St. Augustine—Florida State Bd. of Control, P. K. Yonge, Chmn., Tallahassee, receives bids Apr. 16 for enlarging dining room, Florida School for Deaf and Blind; Rudolph Weaver, Archt., Gainesville.

Fla., Tallahassee—State Board of Control, P. K. Yonge, Chmn., receives bids Apr. 10 for Library addition, Florida State College for Women; stucco, brick, 2 stories and basement, comp. and tile roof; plans from Rudolph Weaver, Archt., 200 Peabody Hall, University of Florida, Gainesville. 2-23

Ga., Cairo—City votes Apr. 17 on \$40,000 school bonds. Address School Bd.

Ga., Homerville—Homerville School Dist. voted \$50,000 bonds; erect school; G. C. Hughes, Chmn., School Trustees. 3-1

Ga., Jackson—Bd. of Education plans consolidated school for Stark, Cedar Rock, Worthville and Fincherville Dist.

Ga., Tallapoosa—Bd. of Education erect \$75,000 school; brick, 2 stories, conc. and wood floors, comp. roof; Wm. J. Chase, Archt., 140 Peachtree St., Atlanta.

Ky., Louisville—Jefferson County Bd. of Education call for bids about 30 days for \$26,000 school, Cane Run Rd.; brick, conc., tile, 2 stories, 6 classrooms, wood floors, comp. roof; Arthur G. Tafel, Archt., 140 S. Third St.; Lewis, Marren & Ronald, Engrs., Realty Bldg. 3-22

Ky., Paducah—McCracken County Bd. of Education erect \$13,000 school; brick, 1 story and basement; W. Bryan Rouse, Archt.

La., Bastrop—Morehouse Parish School Bd. receives bids Apr. 3 for two 1-story schools; rein. conc., 50x120 ft., comp. roof, \$40,000; J. W. Smith and Asso., Archts., Ouachita Bldg., Monroe. 3-22

La., Haynesville—School Bd. erect \$200,000 school; semi-fireproof, rein. conc., brick, stone trim, 2 stories, 19 classrooms, auditorium and cafeteria; Edw. F. Neild, Archt., City Bk. Bldg., Shreveport.

La., Lafayette—Lafayette Parish School Bd., reported, votes Apr. 25 on \$1,000,000 bonds.

La., Shreveport—Caddo Parish School Bd. receives bids about 30 days for \$75,000 school; brick, stone trim, 1 story, comp. roof, plastered interior; Edw. F. Neild, Archt., City Bk. Bldg.

La., Shreveport—Dodd College receives bids Apr. 15 for \$90,000 dormitory; rein. conc., brick, stone trim, slate roof, plastered interior; Clarence W. King, Archt., Giddens-Lane Bldg. 3-22

Md., Baltimore—Friends School, Wm. S. Pike, Chmn. Bldg. Comm., Park Ave. and Laurens St., soon receive bids for first unit of school, Charles St. Ave. near Wynne Hurst Ave.; \$300,000; 1 story, stone, slate roof, wood floors; Mottu & White, Archts., 527 N. Charles St. 2-23

Miss., Biloxi—City votes Apr. 14 on \$100,000 school bonds. Address School Bd.

Miss., Decatur—School Trustees receive bids about Apr. 10 for \$45,000 school; brick, hollow tile, 1 story, 206x158 ft., wood floors, built-up roof, conc. foundation; Burt Stuart, Archt., 1401 24th Ave., Meridian. Address School Trustees. See Want Section—Building Material and Equipment.

Miss., Georgetown—Georgetown School Dist. votes Apr. 7 on \$30,000 bonds.

Miss., Gulfport—Pineville School Dist. voted \$30,000 bonds.

Miss., Lexington—Thornton School Dist. votes Mar. 31 on \$12,000 bonds; erect school and teachers' home.

Miss., Long Beach—City votes Mar. 21 on \$30,000 school bonds; erect addition, 7 classrooms, cafeteria and gymnasium.

Miss., Waynesboro—Waynesboro Separate School Dist. votes Apr. 3 on \$40,000 bonds.

Miss., West Point—Bd. of Trustees of Public Schools receives bids Apr. 17 for school on old Lynch School lot; separate bids on heating, plumbing and electric; plans from W. H. Van Landingham, Clk.

Mo., Orrick—Bd. of Education erect \$45,000 high school, brick, 1 story; H. E. Wagenknecht, Archt., 313½ S. Eighth St., St. Joseph.

Mo., St. Louis—Bd. of Education, Henry P. Schroeder, member, plans \$250,000 school. St. Louis and Garrison Aves.; brick, 24 rooms.

Mo., St. Louis—Bd. of Education plans expending \$1,500,000 for schools; rebuild Columbia grade school and Central High school; erect and improve 8 other schools; R. M. Milligan prepare preliminary plans.

N. C., Greensboro—Greater Greensboro School Bd., E. D. Broadhurst, receives bids last of Apr. for Glendale, Pomona and West Market St. schools; Chas. C. Hartmann, Archt., Jefferson Bldg.

N. C., Murphy—Cherokee County Bd. of Education, A. L. Martin, Supt., receives bids Apr. 3 for two 1-story schools, Martins Creek and Peachtree; brick, tile; separate bids for wiring and plumbing; plans from Supt.

Okl., Blackwell—School Bd. receives bids Apr. 2 for \$50,000 Nash school; separate bids for plumbing and heating fixtures; plans from R. W. Shaw, Archt.

Okl., Muskogee—City voted \$50,000 school bonds; erect school and improve others. Address School Bd.

S. C., Greenville—Bd. of Education remodel high school; also erect addition to Donaldson School.

Tenn., Jackson—City votes Apr. 26 on \$225,000 school bonds. Address School Bd.

Tenn., Lavinia—Dr. T. L. Kile, M. P. Strayhorn and others plan \$10,000 school.

Tenn., Lookout Mountain—Hamilton County School Bd. erect \$60,000 school.

Tex., Austin—City votes about May 15 on \$300,000 school bonds. See Financial News—Bond Issue Proposed.

Tex., Brownwood—City voted \$50,000 school bonds, erect ward school; School Bd., Dr. B. M. Shelton, Pres.

Tex., Buda—School Bd. erect school; fireproof, conc.; Roy L. Thomas, Archt., Littlefield Bldg., Austin.

Tex., Corpus Christi—School Bd. erect high school; 3 stories, 32 rooms, gymnasium and auditorium; Hardy & Curran, Archts., Riggan Bldg.

Tex., Cuero—City votes Apr. 7 on \$125,000 school bonds. Address School Bd.

Tex., Dallas—Bluff View and Love Field Common School Dist., plan bond issue.

Tex., Denton—College of Industrial Arts, W. M. Loveless, Bus. Mgr., receives bids Apr. 6 for 3-story dormitory; rein. conc., brick, stone; separate bids on heating, plumbing and wiring; plans from Shirley Simon, Archt., Lufkin, Tex.

Tex., Eastland—Warner Memorial University Bd. of Trustees, J. T. Wilson, Pres., plans administration building, 2 dormitories and dining hall; also later erect gymnasium and president's home.

Tex., Eola—Independent School Dist. erect \$30,000 school.

Tex., Hebronville—City plans \$40,000 school bond issue. Address School Bd.

Tex., Lyford—Lyford School Dist. erect \$60,000 school; Lloyd E. Mellor, Archt., Harlingen.

Tex., Mt. Vernon—Mt. Vernon Ind. School Dist. voted \$50,000 bonds.

Tex., Nederland—Nederland Independent School Dist., R. L. Pietsch, Supt., voted \$75,000 bonds.

Tex., Rocksprings—Independent School Dist. erect \$12,000 science building; tile, stucco, conc., 1 story; Will N. Noonan Co., Archt., Builders Exchange Bldg., San Antonio.

Tex., Texas City—School Bd., J. P. Jones, Pres., receives bids April 9 for furnishings and equipment for high school; Page Bros., 348 Austin Natl. Bk. Bldg., Austin. 12-12

Tex., Trinity—City votes Apr. 18 on \$80,000 school bonds. Address School Bd.

Tex., Vernon—City voted \$410,000 bonds; include \$200,000 for junior or senior high school and \$50,000 for ward school; address School Bd. 3-1

Tex., Yoakum—Leo M. J. Dielmann, 306 E. Commerce St., San Antonio, drawing

plans for \$80,000 school; brick, rein. conc., 2 stories.

Va., Bedford—State Bd. of Education, Richmond, plans \$25,000 high school.

Va., Roanoke—School Bd. erect 8-room school, Sherwood Ave.

W. Va., Lumberport—Eagle Dist. Bd. of Education, Harrison County, Clarksburg, receives bids Apr. 26 for high school building; plans from S. W. Ford, Archt., 305-06 Latstetter Bldg., Clarksburg.

W. Va., Ronceverte—Fort Springs Dist. receives bids about Apr. 20 for school; Wyssong & Bengston, Archts., Prof. Bldg., Charleston. 3-22

Stores

Ark., Hope—J. A. Henry remodel store; brick veneer; F. N. Porter, Archt.

D. C., Washington—B. Stanley Simmons, 1722 H St., N. W., has plans for 6 stores, 23rd St. and Monroe St.; \$27,000.

D. C., Washington—S. L. Dently drew plans for \$10,000 store, 5013 Georgia Ave.

Ga., Atlanta—J. N. Hirsch, 144 Marietta St., erect \$15,500 brick store, Peters St.

Ga., Atlanta—Mrs. Fannie E. Kitchens, 1647 Sylvan Rd., erect \$10,000 store, 202-04 Moreland Ave.; brick, 60x91 ft., built-up roof.

La., Monroe—S. K. Heninger, 1312 N. Third St., erect \$50,000 store, Main St.; brick, 1 story.

Md., Federalburg—Long & Short, Inc., J. Frank Short, Mgr., rebuild store; 2 stories, 60x160 ft., brick, tile. See Want Section—Building Material and Equipment.

Miss., Yazoo City—Mrs. Geo. B. Twellmeyer erect store, Monroe and Canal Sts.

Mo., Cape Girardeau—Montgomery Ward & Co., Chicago, considers erecting store.

Mo., Neelyville—D. O. Lutz, Excelsior Springs, plans rebuilding burned store and apartment building.

Mo., St. Louis—Phillip Rollhaus, Central Natl. Bk. Bldg., drawing plans for \$70,000 store and apartment building, 20th and Washington Sts.; brick, 2 stories.

Okl., Oklahoma City—Willis G. Sautbine, 915½ N. Hudson St., remodel store, brick, rein. conc., 1 story, 50x60 ft., \$15,000; Harry Reynolds, Archt., Merc. Bldg.

S. C., Rock Hill—B. J. White and associates plan store, E. Main St.

S. C., Spartanburg—Horace L. Bomar erect brick store, Henry and Holland Sts.

Tenn., Chattanooga—Abe and L. Effron remodel store, Sixth St.; comp. roof, hardwood floors, \$40,000; Jacob Danneman, Archt. See Want Section—Building Material and Equipment.

Tex., Alpine—W. P. Hinson erect shop, 30x130 ft.

Tex., Amarillo—Montgomery Ward Co., Chicago, erect store, 1007 Polk St.; terra cotta, 50x140 ft., 2 stories and basement.

Tex., Breckenridge—C. A. Davis Co. soon let contract for \$30,000 store, 312 W. Walker St.; brick, 2 stories, 50x100 ft.

Tex., Dallas—Mrs. Leland Gibson erect \$10,000 store, 611-13 Pearl St.; brick, stone, 1 story.

Tex., Fort Worth—Dunn-Locke Co., 1228 Daggett St., erect \$15,000 store; brick veneer.

Tex., Houston—Meyer Nachlas, 418 Milam St., erect \$10,000 store, St. Emanuel and Leeland Sts.; Joseph Finger, Archt., Keystone Bldg.

Tex., Houston—Rossonian Cleaners erect \$10,000 store, 3915 Alameda Rd.; hollow tile, brick.

Tex., Houston—McCrory Stores, Inc., J. G. McCrory, 1107 Broadway, New York City, Pres., erect \$100,000 store, 505-07 Main St.; 3 stories and basement.

Tex., Houston—Abraham Estate erect \$10,500 store, Pierce St.; brick, stucco.

Tex., Sanderson—Joe Kerr erect \$40,000 store; brick, 2 stories; Henry T. Phelps, Archt., Hicks Bldg., San Antonio.

Tex., San Antonio—Wong Pan erect \$15,000 store, New Braunfels Ave.

Tex., San Angelo—A. O. Allen erect store; Carter & Hall, Archts.

Tex., San Antonio—J. G. Lentz, 109 Solédad St., erect store; tile, stucco, brick, conc., stone trim, 2 stories and basement, 27x190 ft.; L. Harrington Co., Archts., Builders Exchange Bldg.

Tex., Temple—Frank Mathus erect \$12,000 store; Baker Bros., Contrs.

Va., Pulaski—Appalachian Electric Power Co. purchased Peoples Natl. Bk. Bldg.; remodel for stores and offices.

Theaters

Ala., Dothan—Alabama Amusement Co., Rupert Richards, Pres., New Orleans, La., plans \$100,000 theater.

Ark., Cullendale—W. W. Henderson erect theater, North Ave.; brick veneer, 1 story, seat 300.

Md., Baltimore—Philip J. Scheck, 1 N. Holiday St., leased building, 312 W. Baltimore St.; remodel for theater.

N. C., Winston-Salem—Paul Abraham erect \$10,000 theater, Waughtown St.

Tenn., Bristol—C. A. Goebel Theater interests erect theater, State and Progress Sts.; seat 1800.

Warehouses

Ala., Montgomery—Frank Tennille Furniture Co., 109 Commerce St., erect \$48,000 warehouse; brick, 3 stories, 50x200 ft.; Frank Lockwood, Archt., 119 Adams St. See Want Section—Building Material and Equipment.

La., New Orleans—Philip P. Cazale, Archt., 8 Mariborough Gate, receives bids Apr. 2 for warehouse, 1120 Royal St.; rein. conc., brick, 1 story, 73x101 ft. Following contractors estimating: Thomas H. Brockman, Hibernia Bank Bldg.; Chas. Gilbert; R. P. Farnsworth & Co., both Canal Bank Bldg.; A. Garrett, Maritime Bldg.; Haffner & Taylor, 322 Nashville Ave.; A. C. Babins Sons, Marine Bank Bldg.; Lionel F. Favrot, Louisiana Bldg.; Gervais F. Favrot, Balter Bldg.; Alvin Fromherz, Queen and Crescent Bldg.; J. A. Petty & Sons, Inc., Godchaux Bldg.

La., Shreveport—B. W. Marston, 1015 St. Vincent Ave., call for bids about Apr. 1 for \$20,000 warehouse, 616 Edwards St.; Old English type, rein. concrete, brick, 1 story, 40x120 ft., comp. roof; Clarence W. King, Archt., Giddens-Lane Bldg.

N. C., High Point—Fred H. Thomas, Malory St., erect 3-story warehouse, brick, steel, 60x163 ft.; elevators, sprinkler, etc.

Tex., El Paso—Monsen, Dunegan & Ryan, 820 E. Overland St., erect \$125,000 warehouse; fireproof, 4 stories.

Tenn., Fayetteville—J. A. Sloan Co., erect warehouse, 60x160 ft.

Tenn., Greenville—Douglas Morrow and associates consider erecting warehouse.

Tenn., Greenville—Bernard Warehouse Co. plans warehouse, College and McKee Sts.

Tenn., Greenville—Independent Warehouse Co. erect warehouse; steel, 1 story, 108x330 ft., comp. roof; C. J. Jaynes, Archt.

Tenn., Nashville—Phillips & Buttorff Mfg. Co., 217 Third Ave., N., erect \$50,000 warehouse, 14th and Hamilton Sts.; rein. concrete, and steel, 2 stories.

Tex., McAllen—E. D. Mathis erect frame and corrugated warehouse.

Tex., San Antonio—Mary Fest, 1423 S. Flores St., erect \$15,000 warehouse, W. Cavallos St.

Tex., San Angelo—H. B. Robb, Normandy St., Dallas, and others; theater and office bldg.; theater seat 2000; bids probably about 10 days; Scott Dunne, Archt., Meba Bldg., Dallas. (See Buildings Proposed—Bank and Office.)

Va., Norfolk—C. & M. Storage & Realty Corp. receives bids Apr. 4 for \$250,000 warehouse and store, 16th and 17th Sts.; rein. conc., fireproof, 4 stories, 40,000 sq. ft. floor space, steel sash, hollow tile partitions, main floor stone and terra cotta, elevators; 10 stores; Phillip B. Moser, Archt., Law Bldg.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Miss., Drew—Mason Lodge No. 459, A. F. & A. M., let contract for \$30,000 temple to W. R. Ellis, Clarksdale; brick, 2 stories, 100x75 ft., wood and conc. floors, comp. roof; Alsop & Callanan, Archts.; Harry B. Hunter, Engr., both 1300 U. & P. Bk. Bldg., Memphis, Tenn. 3-1

Tex., Mission—Ancient Free and Accepted

Masons let contract for \$25,000 temple to Geo. Holliday, Mission; brick, conc. foundation, 2 stories, 35x70 ft.; A. H. Woolridge, Archt., McAllen.

Bank and Office

La., New Orleans—Norman Mayer & Co., 819 Gravier St., let contract to Thos. H. Brockman, 818 Gravier, for alterations and

additions to 3-story brick building, 818 Union St.; Emile Well, Inc., Archt., Whitney Bk. Bldg. 12-22

Miss., Brookhaven—Brookhaven Bank & Trust Co. let contract at \$77,300 to Geary-Oakes Co., 1001 Q. & C. Bldg., New Orleans, La., for stone building; 2 stories, 50x94 ft., terrazzo floors, Johns-Manville roof; Rathbone DeBuys, Archt., Hibernia Bk. Bldg., New Orleans. 2-23

Tenn., Chattanooga—O. B. Andrews Co. let contract for \$10,000 factory office to John Parks & Co.; brick, 2 stories, 32x52 ft., built-up roof; Bearden & Crutfield, Archts. 3-1

Tenn., Nashville—Victor Chemical Co., Centennial Bldg., let contract to Foster & Creighton Co., Fourth and First Bank Bldg., for brick and conc. office building; 2 stories and basement, 37x56 ft.; Marr & Holman, Archts., Stahlman Bldg. 3-1

Tex., Brownsville—Seabury, George & Taylor let contract at \$32,281 to H. N. Hansen for 2-story office bldg.; plumbing, Quinn & Derrick, \$1777, both Brownsville; wiring, J. W. Davis Electric Co., McAllen, \$1042; brick, rein. conc., cast stone; foundation to carry 2 more floors; 50x120 ft.; Page Bros., Archts., Austin Nat'l Bk. Bldg., Austin, and care Ben Clark, Brownsville. 2-23

Tex., El Paso—Pasotex Petroleum Co., Womble Bldg., let contract for \$18,000 office building to R. E. McKee, 1916 Texas St.; brick, 1 story. 3-15

Tex., Houston—Jesse H. Jones, Goggan Bldg., let contract for 35-story office building, Main St. and Rusk Ave., to American Construction Co.; Gulf Bldg.; \$4,500,000, 465 ft. high, set back from 29th floor; steel from Petroleum Iron Works, Petroleum Bldg.; Alfred C. Finn, Archt., Bankers Mtg. Bldg.; Kenneth Franzheim, 345 Madison Ave., and J. E. R. Carpenter, 589 Madison Ave., both New York, Consult. Archts.; steel to ninth floor. 3-15

Tex., Point Isabel—Point Isabel Land Co. let contract to Walsh & Burney, 928 N. Flores St., San Antonio, for \$30,000 bank and office bldg.; conc., hollow tile curtain walls, wood joist and floors, 2 stories, 50x120 ft., 10-yr. built-up roof; Wm. D. Van Sicken, Archt., 9 Maltby Bldg., Brownsville. 3-8

Churches

Ark., Fort Smith—Dodson Avenue Methodist Church let contract for \$12,000 Sunday school to Walter Vernon, Electric Park add.; frame, 3 stories, 30x50 ft. 3-8

Fla., Jacksonville—Church of Good Shepherd let contract at \$218,700 to A. Bentley & Sons, Atl. Nat. Bk. Bldg., for first unit of \$550,000 structure; Gothic type, rein. conc., stone, tile, 3 stories and basement, conc. and tile floors, steam heat, built-up roof; Corbuser & Foster, Archts., Keith Bldg., Cleveland, O.; Mellen C. Greeley, Asso. Archt., 32 W. Forsyth St., Jacksonville. 3-8

Fla., Miami—First Pentecostal Church, C. P. Hansen, Supt., erect \$15,000 building, N. W. Seventh Ave.; conc. block, 1 story; supervision by Mr. Hansen. 3-8

Fla., Sarasota—First Presbyterian Church let contract to Logan & Currin for building, Barnett Ave. and E. Oak St.; 74x40 ft.; Clare C. Hosmer, Archt., 139 Ringling Boulevard. 1-19

Ga., Decatur—Oakhurst Presbyterian Church let contract to I. N. Brown, 1029 Oak St., S. W., for \$35,000 building; brick veneer, 2 stories, 90x40 ft.; Chas. H. Hopson, Archt., Healey Bldg., both Atlanta. 3-22

Mo., Clayton, St. Louis—First Trinitarian Congregational Church, Wydown Blvd. and University Lane, let contract for \$135,000 addition to E. A. Brunson Construction Co., Rwy. Exch. Bldg., furnishings, equipment, etc., \$25,000; 1 story and basement, 68x121 ft.; LaBeaume & Klein, Archts., Amer. Tr. Bldg., following sub-contracts let: Excavation, J. E. Connelly Excavating Co., 841 Rosedale Ave.; rein. steel, Concrete Engineering Co., 408 Pine St.; brick G. C. Uthoff & Co., 4030 Chouteau Ave.; cut stone, Wabash Stone Co., Wise and East Rd.; elec. work, S. & S. Electric Co., 4527 Olive St.; carpenter work, E. A. Brunson Construction Co., Rwy. Exch. Bldg.; millwork, Mechanics Planing Mill, 3742 N. Broadway; leaded glass, Davis Art Glass Co., 3922 Olive St.; plain glazing, Hadley-Dean Glass Co., 703 N. 11th St.; marble and tile, Fitzee Marble & Tile Co., 1901 N. Broadway; oak floors, Ideal Floor Co., 5843 Highland Ave.; painting, A. F. Hewitt, 7425 Oxford Drive; plastering, Dunn & Campbell, 119 N. Seventh St.; plumbing, Meiners Plumbing & Heating Co., 6154 Page Ave.; slate roof, Geo. Lloyd, 6147 Delmar Blvd.; comp. roof and waterproofing, Certain-teed Products Corp., Boatments Bk. Bldg.; sheet metal, Western

Sheet Metal Co., 4466 Finney Ave.; steel and iron, Stupp Bros. Bridge & Iron Co., Synd. Tr. Bldg.; steel windows, Crittall Casement Window Co., Chemical Bldg.; wood stairs, Missouri Stair Co., 4205 Forest Pk. Blvd., all St. Louis. 3-1

Mo., St. Joseph—First Christian Church let contract to London Construction Co. for \$25,000 building; 3 stories, 28x60 ft., comp. roof; Walter Boschen, Archt., Tootle-Lacy Bldg. 3-1

Okla., Woodward—Presbyterian Church let contract for \$30,000 building to S. S. Strong, Beaver; brick and stone, 60x70 ft., 2 stories and basement; W. E. Hulse & Co., Archts., Hutchinson. Kan. 3-1

Tex., Del Rio—Church of Christ erect \$13,000 addition; rein. conc., tile and stucco; Emmett T. Jackson, Archt., Bldrs. Exch. Bldg.; W. C. Perry, Contr., Bedell Bldg., both San Antonio. 3-1

Tex., Houston—First Methodist Church, E. L. Crain, Chmn., Bldg. Comm., let contract for \$500,000 Sunday school to T. M. Murray, Second Natl. Bk. Bldg., at \$208,318; plumbing, Warren Co., 1214 McKinney St., \$24,947; elec. work, A. T. Vick Co., \$4848; 5 or 6 stories and basement, rein. conc. and brick; Jas. Ruskin Bailey, Archt., 1606 Main St. 3-22

Va., Richmond—Park View Baptist Church, 2602 Idlewood Ave., let contract for \$65,000 building to J. W. Atkinson, Lyric Bldg.; brick, 2 stories and basement, 92x110 ft., oak floors, brick foundation, slate roof; furnishings, equipment, etc., \$15,000; L. P. Hartsook, Archts., Am. Nat'l Bk. Bldg.; work started. 2-23

Va., Richmond—Park View Baptist Church, Rev. W. W. Weeks, D.D., Pastor, let contract to J. W. Atkinson & Co., Lyric Bldg., for \$100,000 Colonial bldg., 2600 block Idlewood Ave.; tower; L. P. Hartsook, Archt., Amer. Nat'l Bk. Bldg. 2-23

City and County

Tex., Greenville—Hunt County Bd. of Commrs. let contract for \$400,000 courthouse to Shepherd Brothers Co.; plumbing and heating, Newman-Parker Co., both Greenville; elec. work, W. E. Busby Co.; elevator, American Elevator & Mach. Co., Ins. Bldg., both Dallas; fireproof, brick and rein. conc., hollow tile, stone trim, tile, cork and linoleum floors, interior marble, marble stairways, built-up roof, steam heat; Page Bros., Archts., Austin Nat'l Bk. Bldg., Austin; W. R. Ragsdale, Asso. Archt., Beckham Bldg., Greenville; Gardner & Howe, Struct. Engrs., 1429 Kirby Bldg., Dallas. 3-15

Tex., Henderson—Rusk County Bd. of Commrs. let contract to Ross Maddox for \$150,000 courthouse; plumbing, E. J. Teller & Son; brick veneer, conc. frame, 3 stories, 69x120 ft., marble, tile and cement floors, built-up roof; Curtis & Thomas, Archts., 712 Constr. Ind. Bldg., Dallas; A. C. Gentry, Asso. Archt., Tyler; R. O. Jameson, Engr., S. W. Life Bldg., Dallas. 3-1

Tex., Humble—Harris County Commrs. Court have completed plans for jail and courtroom bldg.; Hedrick & Gottlieb, Archts., Post-Dispatch Bldg., both Houston. 3-1

Dwellings

Alabama—Alabama Mills Co., organized in Birmingham, Ala., let contract to Batson-Cook Co., West Point, Ga., for buildings, including cottages; Robert & Co., Inc., Archts., Engrs., Atlanta. 3-1

Ala., Birmingham—H. L. Eberhardt, Norwood Ct. Apts., erect \$10,000 brick veneer residence, S. Overlook Rd.; 2 stories, 45x32 ft., comp. roof; Woolard & Lynch, Contrs., 2115 First Ave. 3-1

Ala., Birmingham—E. L. Smith let contract to Paul Bros., Hollywood, for \$11,000 residence, S. Overlook Rd.; brick veneer, 1 story, 54x63 ft., comp. roof. 3-1

Ala., Birmingham—S. B. Smyer, Title Guarantee Bldg., erect \$19,500 brick veneer residence, S. Clairmont Ave.; 2 stories, 69x41 ft., slate roof; day labor. 3-1

Ala., Mobile—Butler Realty Co., 51 St. Joseph St., erect 40 dwellings; 4 completed, 3 under way. 3-1

Ala., Mobile—Mrs. Rose Baum erect \$11,000 hollow tile residence, Dauphin St. near Demouy St.; McCollum Construction Co., Contr. 3-1

Ark., Foreman—Dr. L. Shackelford erect 7-room brick veneer residence; Hardy Construction Co., Contr. 3-1

Ark., Little Rock—R. N. Dillingham, 1624 N. Harrison St., let contract to Branton & Williamson, 501 Second St., for \$15,000 residence and garage; brick veneer, 2 stories, oak floors, tile roof and bath; Clyde A. Ferrell, Archt., 307½ W. Second St. 3-15

Ark., Little Rock—Walter G. Hall, Boyle Bldg., and Graham R. Hall erecting English type brick residence, Edgehill addition; 5 baths, 3-car garage and servants' quarters; Thompson, Sanders & Ginocchio, Archts., Hall Bldg.; Schmelzer & Bush, Contrs. 3-1

D. C., Washington—L. E. Breuninger & Sons, Colorado Bldg., erect stone and tile dwelling, 7700 Morningside Drive, N. W.; 2 stories; owners build. 3-1

D. C., Washington—W. C. & A. N. Miller, 4525 Cathedral Ave., N. W., erect 3 frame and brick dwellings, 3014-26-34 Forty-fifth St., N. W.; 2 stories; \$32,750; owners build. 3-1

D. C., Washington—Terrell & Dinger, Archts.-Bldrs., 3350 Tenneyson St., N. W., completed plans for \$10,000 dwelling, 61½ Western Ave. 3-1

Fla., Coral Gables, Miami—Wm. Buckley, Pres., Wm. G. Buckley Construction Co., 2416 Ponce de Leon Blvd., started work on first 6 of 50 dwellings; first unit \$50,000. 3-1

Fla., Jacksonville—L. B. Houghton, 3955 Ortega Blvd., erect \$10,000 residence; hollow tile, 2 stories; F. L. Arizo, Contr., 4242 S. 60th St. 3-1

Fla., Jacksonville—Clarence Camp erect \$100,000 residence; brick, 3 stories; Marsh & Saxelbye, Archts., Consolidated Bldg.; A. Bentley & Sons, Contrs., Atlantic Nat. Bank Bldg., both Jacksonville. 3-1

Fla., Sarasota—J. G. Whitfield, 3000 13th Ave., Birmingham, Ala., let contract to Logan & Currin, 425 Rawls Ave., for \$50,000 residence, 33rd St. and Indian Beach Rd.; Italian type, masonry, stucco, stone trim, 2 stories, 12 rooms, 4 baths, 2-car garage and servants' quarters; Thos. Reed Martin, Archt., 212 Main St., both Sarasota. 3-1

Ga., Atlanta—Thos. R. Wyndham, Inc., 402 Wynne-Claughton Bldg., erect \$10,600 dwelling, 842 Yorkshire Rd., N. E.; brick veneer, 8 rooms, 2 baths, hardwood floors, comp. roof; owner builds. 3-1

Ga., Atlanta—Maddox & Tisinger, 730 Candler Bldg., erect 3 brick veneer dwellings, 490 Melview Ave., S. W.; 553 Capitol View Ave., S. W., and 557 Dill Ave., S. W.; 7 rooms and bath, hardwood floor, comp. roof, hot air heat; \$18,000; day labor. 3-1

Ga., Atlanta—Real Estate Trust Co., 90 Alabama St., erect 5 dwellings, Forrest Ave. and Forrest Rd., N. E.; brick veneer, 1 story, 7 rooms and bath, hardwood floors, comp. roof, hot air heat; \$22,500; day labor. 3-1

Ga., Atlanta—S. O. Collins, 1507 Moseley Place, S. W., erect 2 brick veneer dwellings, 1431-35 N. Highland Ave., N. E.; 1 story, 6 rooms and bath, steam heat; \$10,000; owner builds. 3-1

Ga., Atlanta—H. Kuniansky, 1036 Healey Bldg., erect 2 brick veneer dwellings, 1037-45 Washington St., S. W.; 1 story, 6 rooms and bath; \$10,000; owner builds. 3-1

Ga., Atlanta—E. Townsend, 807 Silvey Bldg., erect 3 brick veneer dwellings, 235-39-43 Mayson Ave., N. E.; 1 story, 5 rooms and bath, hardwood floors, comp. roof, hot air heat; \$12,000; owner builds. 3-1

Ga., Brunswick—A. A. Nathan erect stucco bungalow, Union St., Brunswick Lumber Co., Contr. 3-1

Ga., Brunswick—Chas. A. Gillean, care Downing Co., erect Colonial weatherboard residence, Albany St. near Prince St.; 2 stories; Ledsinger & Turner, Contrs. 3-1

Ky., Ashland—Sam C. Southern started work on residence, Old Orchard; light brick, 1 story, 7 rooms. 3-1

La., New Orleans—A. Vezoux, 4420 S. Prieur St., erect \$11,000 raised double residence, Jenna St. near Roman St.; 27x102 ft., asbestos and comp. roof; W. M. Geary, Contr., 2125 Callopie St. 3-1

La., New Orleans—Miss Emelia Mock erect 2 double cottages, Jeannette St.; Gitz & Geier, Contrs. 3-1

La., New Orleans—Raymond Pret, 1400 Feliciana St., erect raised bungalow, John T. Boesch, Contr., 1307 France St.; sub-bids March 30. 3-1

La., Shreveport—Miss Mattie Durden, 315 Wilkinson St., erect \$10,000 residence, University Heights; M. C. Brown, City Bank Bldg., Contr. 3-1

La., Shreveport—A. M. Bourquin, 1108 Boulevard, erect \$25,000 brick veneer and stucco residence, Line Ave. and Dudley St.; 2 stories, tile roof and baths; H. E. Schwarz, Archt., Slattery Bldg.; C. A. Collins, Contr., Hutchinson Bldg. 3-1

Md., Baltimore—W. McHenry Keyser, Keyser Bldg., erect 6 brick dwellings, 307-11, 312-16 Taplow Rd.; 2 stories, slate roofs, vapor heat; \$70,000; E. H. Glidden, Jr., Archt., American Bldg.; Henry T. Sorrell & Son, Contrs., 4112 Kathland Ave. 3-1

Md., Baltimore—Conrad Mauler, 806 E. 42nd St., erect \$10,000 residence and garage, 315 St. Dunstons Rd.; 2½ stories, 36x25 ft. and 19x20 ft., frame, slate roofs, hot water heat; G. E. Stone, Archt.; Henry T. Sorrell & Son, Contrs., 4112 Kathland Ave.

Md., Baltimore—Milburn Realty Co., 1320 N. Charles St., erect 13 brick dwellings, 500-25 Twentieth Ave.; 2 stories, 16x40 ft.; \$26,000; Chas. S. McClure, Archt., 6015 Shelburne Ave.; owner builds.

Md., Baltimore—Herman Home Building Corp., Culver St., erect 8 brick dwellings, 3701-15 Culver St.; 2 stories, 14x30 ft.; \$16,000; owner builds.

Md., Baltimore—Geo. W. Schoenthals & Co., Bldrs., Munsey Bldg., erect 9 brick dwellings, 100 block W. 39th St.; 2 stories; \$23,000; owners build.

Miss., Natchez—Geo. B. Antley, Contr., Linden Pl., plans number small cottages, St. Catherine St.

Mo., St. Louis—J. C. Greulich, 3111 N. Grand Ave., erect 5 brick dwellings, 8500 block Park Lane; 1 story, 26x48 ft., asphalt shingle roofs, hot air heat; \$17,500; W. P. Manske, Archt., 410 N. Euclid Ave.; owner builds.

Mo., St. Louis—Sol Abrahams & Son, 1123 Chemical Bldg., erect \$12,000 brick dwelling, Stanford and Midland Sts.; 1½ stories and basement, hardwood floors, tile bath; work by sub-contracts.

Mo., St. Louis—W. Molasky, 6122 Waterman St., erect \$10,000 brick residence, 6204 Aberdeen St.; 2 stories, 32x50 ft., tile roof, gas boiler heat; W. Nicolson, Contr., 1372 Temple St.

Mo., St. Louis—V. R. Stamm, 5847 Hampton St., erect 3 brick dwellings; 1 story, 21x43 ft., comp. shingle roof, hot air heat; \$19,500; plans and constr. by owner.

Mo., St. Louis—Bixby-Smith, Inc., 316 N. Eighth St., erecting group of dwellings, Osage Hills Country Club grounds, Big Bend Blvd.; brick or native stone, English, Normandy and Colonial types; \$100,000; plans additional dwellings.

Mo., St. Louis—G. Benson, 1161 Bayard Ave., erect brick residence; 2 stories and basement, 23x40 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; Home Building Repair Co., Contr., 1043 Louisville St.

Mo., St. Louis—Garrison Investment Co., 1105 Chestnut St., erect 9 brick dwellings, 4415-45 S. 37th St.; 1 story and basement, 26x38 ft., hardwood floors, tile bath, comp. roof; \$27,000; Duncan-Garrison Construction Co., Contr., 1105 Chestnut St.

Mo., St. Louis—F. J. Kurz, 3619 Meramec St., erect 2 brick dwellings, 5600-02 S. 37th St.; 1 story and basement, 22x42 ft., hardwood floors, tile bath, asbestos shingle roof, furnaces; owner builds.

Mo., St. Louis—A. S. Longo, 2315 S. Kingshighway, erect 2 brick dwellings, 5317-19 Botanical Ave.; 1 story and basement, 24x48 ft., hardwood floors, shingle roof, tile baths, hot water heat; \$14,000; Chas. Christina, Contr., 5425 Columbia Ave.

Mo., St. Louis—F. & N. Panhorst, 5411 Plover Ave., erect 2 brick dwellings, 5709-13 Pamplin Place; 1 story and basement, 22x40 ft., hardwood floors, rubberoid shingle roof, tile baths, warm air heat; \$10,000; owner builds.

Mo., University City, St. Louis—C. A. Perry, 511 Midvale St., erect \$15,000 brick residence and garage, 515 Midvale Ave.; 2 stories, 42x42 ft., slate roof, steam heat; Nolte & Nauman, Archts., Fullerton Bldg.; owner builds.

Mo., University City, St. Louis—Wm. Glicker, 728 Yale Ave., erect \$10,000 brick residence, 7233 Cambridge Ave.; 2 stories and basement, 37x30 ft., tile roof and bath, hardwood floors, asphalt shingle roof, vapor heat; owner builds.

Mo., University City, St. Louis—Geo. L. Neuman, 4527 Adelaide Ave., erect \$12,000 residence, 7233 Cambridge Ave.; brick, 2 stories and basement, 35x25 ft., hardwood floors, slate roof, tile bath, hot water heat; Berkeley Construction Co., 6625 Delmar Blvd.

Mo., University City, St. Louis—Mrs. Florence Westlund, care Maritz & Young, Archts., Chemical Bldg., erect \$30,000 residence, University Hills; brick, 2 stories and basement, 43x46 ft., oak floors, slate roof, vapor heat; Murch Bros. Construction Co., Contr., Rwy. Exch. Bldg.

N. C., Charlotte—Mrs. J. G. Baird, 701 S. Tryon St., erecting brick veneer residence, Queens Rd., W., and Sherwood Ave.; 2 stories.

N. C., Greensboro—P. C. Painter, City Mgr., started work on \$17,500 residence, Irving Park; brick veneer, 2 stories, 27x42

ft., oak floors, brick foundation, Buckingham slate roof; address proposals on furnishings, equipment, etc., \$7500, to J. Addison Smith, Engr., 1201 Asheboro St., Asheville; A. Raymond Ellis, Archt., Hartford, Conn.; W. H. Smith & Son, Contrs., 1201 Asheboro. See Want Section—Building Material and Equipment.

N. C., Greensboro—T. D. Sharpe, care Sou. R. E. Co., 102 N. Elm St., completed foundation for \$20,000 residence, 1204 W. Market St.; brick veneer, 2 stories, 37x42 ft., oak floors, green tile roof; address proposals on furnishings, equipment, etc., \$8000, to J. Addison Smith, Engr., 1201 Asheboro St.; Lorenzo S. Winslow, Archt., Amer. Exch. Bk. Bldg.; W. H. Smith & Son, Contrs., 1201 Asheboro. See Want Section—Building Material and Equipment.

Okla., Oklahoma City—A. Halvik erecting \$10,000 residence, Harden's W. 12th St. Blvd. addition.

Okla., Oklahoma City—Paul Hickox erecting \$10,000 stucco duplex, 2852 W. 19th St., Crestwood addition.

Okla., Oklahoma City—C. R. Reynolds erecting \$10,000 residence, Harden's W. 12th St. addition.

Okla., Oklahoma City—F. W. Stass erecting 2 dwellings, Harden's W. 12th St. Blvd. addition, \$17,000.

Okla., Oklahoma City—Frank Kilpatrick, 1105 W. 37th St., framing \$10,000 brick veneer residence, 1535 W. 38th St.; 2 stories, 37x54 ft., oak floors, shingle roof; Harry Reynolds, Archt., Magnolia Bldg.; L. C. Stone, Const. Supt., 1515 W. 32nd St. 3-22

S. C., Belton—W. E. Greer erect \$11,500 residence; brick veneer, 2 stories, 50x50 ft., hardwood floors, brick foundation, comp. shingle roof; Wm. R. Ward, Archt., Greenville; Mitchell-Cox Lumber Co., Contr., Holmes St., Belton.

S. C., Spartanburg—Powell Knitting Co. let contract to Fiske-Carter Construction Co., Masonic Temple, for 29 operatives' dwellings; Lockwood, Greene & Co., Engrs., Charlotte, N. C.

Tenn., Knoxville—J. E. Campbell, 3225 E. Fifth Ave., erect brick veneer residence and garage, Scenic Drive Addition; 9 rooms, tile roof, oak floors; Leonard Dow, Archt., Brownlow Bldg.; O. W. Sweat, Contr., 218 Emoreland Rd.

Tenn., Knoxville—Asa Ambrister, 3318 Kingston Pike, erecting \$10,000 Dutch Colonial brick residence, Adair Gardens.

Tenn., Knoxville—R. R. Templeton, 1805 Wash. Ave., erecting English type residence, Adair Gardens.

Tenn., Memphis—John K. Walker, Jr., erect English type residence, Garden Lane, Chickasaw Gardens; 2 baths; Estes W. Mann, Archt., Cotton Ex. Bldg.; Lewis L. Diehl, Contr., 21663 Forrest St.

Tenn., Memphis—Paul Koehler, 1215 Dorothy Place, erect \$12,500 brick veneer duplex, 705-07 S. Bellevue Blvd.; 2 stories and basement, 35x49 ft., oak floors, tile bath, comp. shingle roof, steam heat, 3-car garage; owner builds.

Tenn., Memphis—W. D. Lowery, 2550 Broad St., erect \$10,000 brick veneer and stucco duplex and garage, Bingham and Broad Sts.; 1 story and basement, 20x75 ft., oak floors, tile bath, comp. shingle roof, hot water heat; owner builds.

Tenn., Memphis—W. C. Mullins, 911 Highland Ave., erect 2 brick veneer dwellings and garages, 907-11 Beatrice St.; 1 story and basement, 28x46 ft., oak floors, comp. shingle roof, tile bath, hot water heat; \$10,000; owner builds.

Tenn., Memphis—John K. Walker, 1535 Pance Ave., erecting \$12,500 brick, stone veneer, stucco and half timber residence, Chickasaw Gardens; English type, 1 story and basement, oak floors, tile bath, comp. shingle roof, steam heat; Estes W. Mann, Archt., 203 Cotton Exch. Bldg.; L. L. Diehl, Contr., 1663 Forrest St.

Tenn., Memphis—Robt. G. Amo, 1526 N. Parkway, let contract to McDonnell Construction Co., 1065 Lamar St., for \$20,000 duplex; brick veneer, 2 stories, 36x58 ft., No. 1 hardwood floors, tile roof; furnishings, equipment, etc., \$2000; engineering by Contr. See Want Section—Bldg. Material and Equipment. 3-22

Tex., Fort Worth—Mobley & Delaney, Tex. Nat'l Bldg., erect \$14,000 tile and stucco dwelling, 2106 Warner Rd.; owners build.

Tex., Houston—Thos. Blakely, W. 11th Pl., erecting \$18,000 residence, 2203 Brentwood Ave.; frame and stucco, 2 stories; Chas. W. Oliver, Archt.; River Oaks Corp., Contr., both River Oaks Bldg.

Tex., Houston—Hal M. Davis, University Place, let contract to River Oaks Corp. for \$15,000 residence, 1909 Belmeade Ave.; brick

veneer, 2 stories, 6 rooms; Chas. W. Oliver, Archt., both River Oaks Bldg. 3-22

Tex., Houston—A. O. Fisher erect 4 duplexes, 1202-06-10-14 Link Rd.; 10 rooms, 2 stories; \$40,000; J. A. Lewis, Contr., 2405 St. Charles St.

Tex., Houston—W. C. Morgan erect \$41,000 duplex, 1755 Kipling St. brick veneer, 10 rooms; owner builds.

Tex., Houston—Herbert E. Neuhaus let contract at \$34,431 to W. L. Goyen, Post-Dispatch Bldg., for residence, River Oaks; brick veneer, 2 stories; R. D. Steele, Archt., First Nat'l Bk. Bldg.

Tex., Houston—G. G. McCall erect brick veneer duplex, 2411 Hudy St.; 2 stories, 10 rooms; R. C. Paul, Contr., Keystone Bldg.

Tex., Houston—Carter G. Rala, 1212 Frederick St., erect brick veneer residence, Bagby and Pierce Sts.; 10 rooms, 2 stories and basement, Mission tile roof; Thiel & Maddy, Archts., Binz Bldg.; T. P. Childers, Contr., 4213 Clay St.

Tex., Houston—River Oaks Corp. started work on Colonial residence, garage and servants' quarters, Kirby Drive; 4 baths, dual warm-air furnace heat; Chas. W. Oliver, Archt., both River Oaks Bldg.; owner builds.

Tex., Kenedy—Chas. Newman erecting residence; tile, stucco, 1 story, 6 rooms.

Tex., San Antonio—W. Martinez, 709 S. Frio St., erect brick and tile residence, 1500 block Woodlawn Ave.; 2 stories, 8 rooms; Seutter & Simons, Archts.; Construction Co., Contr., both Bldrs. Exch. Bldg.

Tex., San Antonio—B. G. Irish Co., 401 Navarro St., erect 4 dwellings, McKinley Ave.; 5 rooms; \$12,000; owner builds.

Tex., San Antonio—W. S. Seng, Bldrs. Exch. Bldg., let contract on cost plus basis to A. Vogel & Co., 319 Jones Ave., for Spanish type residence, Park Hill Drive; 2 stories, brick, stucco and conc.; Albaugh & Steinbomer, Archts., 941 Austin St.

Government and State

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., let contract at \$1,453,000 to Geo. Hyman Construction Co., Seventh and T Sts., N. E., for general work for white marble administration building, Department of Agriculture; mechanical equipment, Standard Engineering Co., 2029 I St., N. W., \$114,500; plaster models, J. C. Lombard Co., Inc., \$4710; Hyman Company submitted low bid at \$39,500 for additional excavation; Rankin & Kellogg, Archts., 1805 Walnut St., Philadelphia, Pa.; Edw. H. Bennett, Const. Archt., 80 E. Jackson Blvd., Chicago, Ill. 3-15

Miss., Vicksburg—Commanding Officer, Q. M. I. Depot, Jeffersonville, Ind., let contract for \$10,000 lodge, National Cemetery, to R. B. Howard, Vicksburg.

Va., Quantico—Bureau of Yards and Docks, Navy Dept., Washington, D. C., let contract at \$788,000 to Murch Bros. Construction Co., 611 Olive St., St. Louis, Mo., for 3 fireproof barracks, Marine Barracks; accommodate 1500; rein. conc. frames, brick walls, 3 stories, about 350x56 ft. each, conc. floors and foundations, slate roofs; plans and engineering by Bureau of Yards and Docks. 3-22

Hospitals, Sanitariums, Etc.

Ark., Helena—City, D. T. Hargraves, Mayor, let contract at \$146,523 to Stewart-McGehee Construction Co., Kahn Bldg., Little Rock, for fireproof hospital; brick and stone, 3 stories and basement, 90x150 ft., conc. tile and linoleum floors, tile roof, vapor heat; Eugene John Stern, Archt., A. O. U. W. Bldg., Little Rock; A. P. Coolidge, Asso. Archt. Helena. 3-22

La., Alexandria—Baptist Hospital completed foundation for nurses' home, Bush Ave.; Hayden Investment Co., Contr.; roofing and sheet metal, O. G. Wilson.

Tenn., Paris—Geo. R. McSwain let contract to Fred. N. Travis for \$12,000 hospital and clinic, Dunlap St.; 2 stories, 38x40 ft., Armstrong linoleum floors, asphalt shingle roof; plans by Contr. 3-22

Hotels and Apartments

Ala., Athens—C. K. Howell, Archt., Forsyth Bldg.; Robt. S. Fiske, Const. Engr., Healey Bldg., both Atlanta, Ga., preparing plans for \$180,000 hotel; rein. conc., brick, stone trim, 4 stories, 100x98 ft., 60 rooms, built-up roof, conc. tile and wood floors, elevators; Chas. M. Allen & Son, Contr., 408½ N. 19th St., Birmingham.

Ark., Malvern—Commercial Hotel, John Barlow, remodel hotel; Thompson, Sanders & Ginocchio, Archts., Hall Bldg., Little Rock; T. E. Nunn, Contr.

D. C., Washington—W. M. Ward, 1410 H St., erect \$125,000 apartment, 5620 Colorado Ave.; fireproof, 3 stories, 97x34 ft., oak and tile floors, slag roof, conc. foundation; John Edgar Sohl, Archt., 1107 Connecticut Ave.; Joseph G. Herbert, Engr., 2213 Naylor St., S. C.; owner builds. See Want Section—Building Material and Equipment.

Fla., Jacksonville—M. C. Doty and Henry Vandell erect \$75,000 apartment, Liberty St.; brick, veneer, 3 stories; W. C. Hale, Archt.; Chas. Greenwood, Contr.

Fla., Jacksonville—C. M. Doty and Henry Bandel erect \$15,000 apartment; brick veneer, 3 stories; Chas. Grimwood, Contr., all 721 Barnett Bk. Bldg.

Ga., Atlanta—H. M. Rice, 1745 N. Decatur Rd., erect \$60,000 apartment, Collier Rd. and Wycliffe Rd.; brick veneer, 2 stories and basement, hardwood floors, comp. roof; owner builds.

Ga., Atlanta—J. G. Hamm, 77 Hunter St., erect \$60,000 apartment, 1128-32 Virginia Ave.; brick, wood joist, 2 stories and basement, comp. roof, conc. and hardwood floors; R. P. Pool, Contr., 664 Linwood Ave. See Want Section—Building Material and Equipment.

Ga., Atlanta—J. F. Evans, Highland Ave., erect \$50,000 apartment, Jackson St.; brick veneer, 2 stories, comp. roof, hardwood floors; owner builds.

Ga., Atlanta—T. H. Chastain, 336 Angier Ave., erect \$30,000 apartment, 725 Catherine St.; brick, 2 stories and basement, comp. roof, hardwood floors; owner builds.

Ga., Atlanta—J. N. Hirsch, Marietta St., erect apartments, 328-50 Hills Ave.; frame, 2 stories and basement, 12 rooms, comp. roof, \$30,400; W. D. Oliver, Contr., Brookhaven.

Ky., Fulton—Guarantee Investment Co. remodel hotel; \$50,000; J. Frazer Smith & H. M. Burnham, Archts., Goodwyn Inst. Bldg., Memphis, Tenn.; L. H. Howard, Contr.

La., Bogalusa—Mrs. W. P. Stewart erect 14-room boarding house; Bob Adams, Contr.

Miss., Durant—S. W. Leard, Bldr., S. West St., Jackson, erect \$145,000 hotel; brick, conc., east stone, 4 stories, 80 rooms, 60 baths; Emmett J. Hull, Archt.

Mo., Flat River—E. A. Rozier, C. R. Pratt and others erect \$95,000 hotel, Main St.; 53 rooms; Wilkerson Construction Co., Contr., St. Louis.

Mo., St. Louis—J. Blasits, 1662 S. Jefferson St., erect \$10,000 tenement, 1444 Tamm St.; brick, 2 stories, 38x48 ft., comp. roof; H. Hochman & Co., Contr.

Mo., St. Louis—West End Realty & Construction Co., 3416 Union St., erect 2 tenements, Anderson St.; brick, 2 stories, 27x38 ft., tile roofs, \$26,000; C. L. Thurston, Archt., City Bk. Bldg., both Shreveport. 3-1

Mo., St. Louis—Mars Realty Co., 209 International Life Bldg., erect 5 tenements, Herbert St.; 2 stories, 30x44 ft., comp. roof, hot air heat; \$40,000; H. H. Sims, Contr., 209 International Life Bldg.

Mo., St. Louis—A. Stein, 7003 Grand Blvd., erect \$40,000 apartment, Bates and Grace Sts.; 3 stories and basement, 132x100 ft., hardwood floors, tar and gravel roof, rubble foundation; E. E. Christopher, Archt., 317 N. 11th St.; owner builds. See Want Section—Building Material and Equipment. 3-15

Mo., St. Louis—P. J. Bulla erect 2 tenements, 3720 Filmore St.; brick, 2 stories, 25x48 ft.; \$15,000; owner builds.

Mo., St. Louis—R. Rosemond Co., Inc., 6115 Gravis St., erect 7 tenements, Mardel St.; brick, 2 stories, \$42,000; owner builds.

Mo., St. Louis—A. R. Darr erect 3 tenements, Broadway; brick, 2 stories, 36x55 ft.; \$24,000; A. R. Darr Construction Co., Contr., both 4200 Dewey St.

Mo., St. Louis—J. G. Broeckelman, 5220 Sutherland Ave., erect \$11,000 apartment 3909 Winnebago St., brick, 2 stories and basement, 32x56 ft., oak floors; Adolph F. Stauder, Archt., 6032 S. Kingshighway Blvd.; Fischer Bros., Contr., 3819 Michigan Ave.

Mo., St. Louis—E. A. Simons, 4396 Forest Pk. Blvd., erect \$30,000 apartment; brick, 3 stories and basement, 42x60 ft., comp. roof, hardwood floors; owner builds.

Mo., St. Louis—V. Voerster, 5753 Etzel Ave., erect \$10,000 apartment, 1346-48 Tamm Ave., brick, 2 stories, 33x41 ft., asphalt roof, stone foundation; Henry Schaumburg, Archt., 3631 Connecticut St.; Voerster Real Estate Co., Contr., 3637 Grand St.

Mo., St. Louis—P. A. Stecker, 3705 Neosho St., erect \$10,000 apartment, 4131 S. 38th St., 2 stories and basement, 29x36 ft.; owner builds.

Mo., St. Louis—J. Pupilo, 4733 St. Louis

St., erect \$16,000 tenement, Terry St.; brick, 2 stories, 44x65 ft., comp. roof; J. Brugnone, Archt.; Rallo & Brugnone, Contr., 4659 Page St.

Mo., St. Louis—Walter L. Heyde, 6325 San Bonita Ave., erect \$25,000 apartment, 7337 Pershing Ave.; brick, 2 stories, 51x68 ft., terra cotta and stone trim, stone foundation, oak and tile floors, tile and asphalt shingle roof, steam heat; Nolte & Naumann, Archt., 614 Fullerton Bldg.; Chas. H. Finch, Contr., 6825 Corbitt Ave.

Mo., St. Louis—G. M. G. Co., 6306 W. Florissant St., erect \$70,000 store and office building, W. Florissant St.; brick, 2 stories, 215x44 ft., comp. roof; Klingensmith & Wilkerson, Archts., Louderman Bldg.; W. N. & N. Cunliff Co., Contr., 410 N. Euclid St.

Mo., St. Louis—E. Meyer, Grand and Gravois Sts., erect 2 tenements, Dover Place; brick, 2 stories, 34x48 ft., comp. roofs; \$17,000; owner builds.

Mo., St. Louis—Koch & Hauptfleisch, 5535 Grace Ave., erect \$14,000 apartment, 3936 Dover Place; brick, 2 stories and basement, 26x48 ft.; Schulte & Tarling, Archt., 222 Grand-St. Louis Bldg.; owner builds.

Mo., St. Louis—J. R. and E. W. Case, 1801 LaSalle St., erect \$10,000 apartment, 2315 Park Ave.; brick, 2 stories, 27x49 ft.; Zepfelfeld Construction Co., Contr., 3905 Utah Place.

Mo., St. Louis—Duncan-Garrison Investment Co. erect 4 apartments, No. 21st St.; brick, 2 stories, 42x46 ft., conc. roofs; \$36,000; Duncan-Garrison Construction Co., both 1105 Chestnut St.

Mo., St. Louis—M. Harkins, 3128 McCausland Ave., erect \$10,000 apartment, 4953 Fairview St.; brick, 2 stories and basement, 29x28 ft., comp. roof; Rafferty Real Estate Co., Contr., 615 Chestnut St.

Mo., St. Louis—D. Vitall, 2511 Prairie Ave., erect \$10,000 apartment, 1700 Belle Glade, brick, 16x54 ft., 2 stories and basement, hardwood floors, tar and gravel roofs. 3-1

Mo., St. Louis—M. Loncaric, 2818 LaSalle St., erect \$10,000 apartment, 4038 Miami St.; brick, 24x45 ft., 2 stories, comp. roof; J. R. Egbert, Archt.; Home Building Rep. Co., Contr., both 1043 Louisville St.

Mo., St. Louis—E. Hunkler erect \$16,000 apartment, Columbia Ave.; brick, 2 stories, 35x48 ft., stone foundation; J. F. Haug, Contr., 4141 Magnolia Ave.

Mo., St. Louis—H. J. Williams erect \$10,000 apartment, 4008 Enright St.; brick, 2 stories and basement, 37x52 ft., tar and gravel roof; Sachar & Cantor Construction Co., Contr., 722 Chestnut St.

Mo., University City, St. Louis—Walter L. Heyde, 6325 San Bonita St., erect \$17,000 apartment, 7337 Pershing Ave.; brick, 2 stories, 51x68 ft., tile roof; Nolte & Naumann, Archts., Fullerton Bldg.; Chas. H. Finch, Contr., 6825 Corbitt St.

Mo., University City, St. Louis—J. G. Peterson, 7115 Dartmouth St., erect \$10,000 apartment, 7017 Amherst Ave., brick, 27x49 ft., 2 stories and basement, tile roof; E. J. Peterson, Contr., 8108 Washington Ave.

N. C., Charlotte—Chas. A. Mullis, 302 Chadwick Ave., has contract for \$100,000 apartment, Elizabeth and Fox Sts.; 3 stories.

N. C., Raleigh—Gillett & Co., Baltimore, offering \$700,000 first mortgage 6% sinking fund gold bonds for apartment hotel for Carolina Hotel Co., H. A. Underwood, Archt., Commercial Bk. Bldg., Raleigh, president; plans by Mr. Underwood; John W. Hudson, Contr., Tarboro and Raleigh. 2-2

Okla., Tulsa—Henry Ketchum, 424 E. Eighth St., let contract at \$254,000 to G. T. Bowie & Co. for hotel Tulsa addition; brick, rein. conc., 3 stories; L. I. Shumway, Archt., Alexander Bldg. 3-22

S. C., Sumter—H. J. Harby erect \$62,000 apartment; stucco on stone, 2 stories, tile roof; J. F. Heslep, Contr., Columbia.

Tenn., Memphis—H. A. McQuire Co., 820 Dermon Bldg., erect \$75,000 apartment, 1200 Canton Pike Ave.; brick veneer, 2 stories, comp. and tile roof, conc. foundation; W. C. Lester, Archt., Dermon Bldg. 3-22

Tenn., Murfreesboro—Murfreesboro Hotel Co., Inc., let contract at \$150,000 to Bell Bros. & Co. for hotel; brick, tile, rein. conc., 4 stories and basement, terrazo and cement floors, conc. foundation, Barrett roof; vapor steam heating and plumbing, W. S. Parrish, both Murfreesboro; electric, Mullen Electric Co., 1716 Church St.; Nashville; elevators, Otis Elevator Co., 11th Ave. and 26th St., New York; cut stone, Southern Cut Stone Co., Bowling Green, Ky.; Donald W. Southgate, Archt., Nashville; Franke B. Warfield, Engr., both Stahlman Bldg., Nashville. See

Want Section—Building Material and Equipment. 3-1

Tenn., Old Hickory—E. M. and Barnes Elliott, 2303 Fifth Ave., Birmingham, Ala., let contract to G. F. Howard, Elliott Ave., for \$125,000 hotel, 2600 Hadley Ave.; conc., stucco, 2 stories, 50x90 ft., pine and oak floors, built-up roof, conc. foundation; Elliott C. Howard, Archt. See Want Section—Building Material and Equipment. 3-1

Tex., Houston—Clay & San Jacinto Holding Co. let contract to Don Hall, Cotton Exchange Bldg., for \$100,000 hotel, Clay and San Jacinto Sts.; fireproof, 3 stories, 100x100 ft.; conc. floors, tar and gravel roof, conc. foundation; James Ruskin Bailey, Archt., 905 Public Nat'l Bk. Bldg.; H. M. Sandord, Engr., Esperson Bldg. See Want Section—Bldg. Material and Equipment. 3-22

Tex., Houston—J. F. Falloine let contract to Minchen Realty & Investment Co., West Bldg., for \$20,000 apartment, 6624 Canal St.; brick veneer, 2 stories, 42x50 ft., hardwood floors; Chas. Miller, Archt., 417 West Bldg. 3-22

Tex., Houston—Mrs. Effie H. Pardue erect \$45,000 apartment; brick veneer, 2 stories, 44x103 ft., tile roof; Louis P. Josseland, Archt., First Nat'l Bk. Bldg.; Lightfoot Construction Co., 3103 Main St., Contr.

Tex., Weslaco—Quinn & Derrick, Elizabeth St., Brownsville, has heating and plumbing contract for \$200,000 hotel for Weslaco Hotel Co., care Argentum Development, Corp., Bedell Bldg., San Antonio; elec. work, Weslaco Electric Co.; elevators, Otis Elevator Co., 108 Navarro St., San Antonio; Paul G. Silber & Co., Archts., Bedell Bldg.; Walsh & Burney, Inc., Contr., 928 N. Flores St., both San Antonio. 2-16

Va., Norfolk—J. Frank East, Jr., 900 Shirley Ave., let contract at \$35,595 to C. Q. Nugent, Law Bldg., for apartment, Shirley and Core Ave.; brick, steel, frame; Rudolph Cooke & Van Leeuwen, Inc., Archt., 355 Arcade Bldg.

Miscellaneous

Ala., Birmingham—Rocky Ridge Country Club, J. A. Pearson, Pres., 3206 Norwood Blvd., let contract at \$87,500 to E. G. Holladay Co., 1 Martin Bldg., for club; 2 stories and basement, tile and stone, wood floors, slate roof, steam heat; Turner & McPherson, Archts., Martin Bldg. 1-26

Mo., St. Louis—Math Hermann & Son, 4103 Florissant St., care Chas. M. Hermann, remodel funeral parlor and chapel, \$50,000; Trueblood & Graf, Archt., 1517 Chemical Bldg., Humes Deal Co., Contr., 777 Arcade Bldg.

Tex., Childress—Woman's Department Club, Mrs. Q. S. Barrett, Pres., Box 447, let contract at \$23,080 to C. L. Kugler Construction Co., Oliver-Eagle Bldg., for building; 2 stories, 93x45 ft., tar and gravel roof, conc. foundation; Guy A. Carlander, Archt., 15 Massie Bldg., both Amarillo. See Want Section—Bldg. Material and Equipment. 3-8

Tex., Harlingen—See Brownsville.

Railway Stations, Sheds, Etc.

Ala., Mobile—Alabama, Tennessee & Nashville R. R. W. Toxey, Ch. Engr., let contract at \$70,500 to L. W. Hancock, Louisville Tr. Bldg., Louisville, Ky., for freight shed; at one end, 1-story, 30x60 ft. office, face brick, steel sash, stone trimmings; freight warehouse 36x384 ft., brick walls, rein. conc. slab and built-up roofing, pile foundation, steel sash, rolling steel doors; Hutchisson, Holmes & Hutchisson, Archts.-Engrs., Staples-Powell Bldg. 2-23

Fla., Lake Wales—Atlantic Coast Line Railway Co. let contract to R. W. Burrows Construction Co., Bartow, for \$20,000 passenger depot; stucco, brick, 1 story, 100x30 ft., cement and rift pine floors, tile roof. See Want Section—Building Material and Equipment. 3-15

Tex., Brownsville—Southern Pacific Lines, R. W. Barnes, Ch. Engr., 916 S. P. Bldg., Houston, erect express offices; brick, hollow tile, stucco, here and at Harlingen; Summer Sollitt Co., Contr., National Bk. of Commerce Bldg., San Antonio.

Schools

Ala., Florence—State Dept. of Education, Montgomery, A. R. Springer, County Supt., let contract to Athens Lumber Co., Athens, for \$10,000 school.

Ala., Mobile—John J. Carey, Archt., State Office Bldg., let contract at \$116,500 to Sundberg Construction Co., 307 N. Royal St., for Catholic high school; hollow tile, stucco, brick, 2 stories, 219x152 ft., conc., terrazzo, tile and wood floors clay tile and

built-up roof; electric, Sigler Electric Co., 7 S. Joachim St.; tile, terrazzo, marble and slate, Dagostin & Angallini Bros.; plaster and stucco, R. N. McLeod & Son, 405 Charleston St.; tile, comp. roofing and sheet metal, J. J. Barnes, 112 S. Commerce St.

Fla., Lake Worth—Palm Beach County Bd. of Public Instruction let contract to Chalker & Lund, Inc., 803 Harvey Bldg., West Palm Beach, for \$75,000 school; hollow tile, wood joists, 2 stories, 60x140 ft., pine and rubber-stone tile floors, Johns-Manville roof; Harry Bennett, Archt. 3-22

Ga., Eatonton—School Bd. erect \$20,000 school; brick, 1 story and basement, comp. roof, conc. and wood floors; Dennis & Dennis, Archts., 556 Mulberry St., Macon; Robt. McMillan, Contr., Milledgeville. 3-22

Ga., New Holland—Lockwood, Greene & Co., Inc., Engrs., 24 Federal St., Boston, and Atlanta, let following sub-contracts for school: Sprinkler system, Grinnell Co., Inc. 276 Marietta St.; limestone trim, Capital Stone Co., 214 Terry St., S. E.; fire alarm system, Edwards & Co., 138 Marietta; steel lintels, Virginia Bridge & Iron Co., Healey Bldg.; underground steam supply line, H. M. Jackson & Co., Inc., Forsyth Bldg., all Atlanta; heating and plumbing, Pierce Co., Gainesville; electric, Huntington & Guerry, Inc., N. Main St., Spartanburg, S. C.

Ky., Hardinsburg—Bd. of Education erect \$70,000 high school; semi-fireproof, brick, stone, 2 stories and basement, 75x100 ft., comp. roof, wood floors; H. E. Boyle & Co., Archt., Evansville, Ind.; Howard Hook, Contr., Hardinsburg.

La., Forbush—Caddo Parish School Bd., Shreveport, let contract to McMichael Construction Co., at \$21,920 for school; rein. conc., brick, 1 story; Edw. F. Neild, Archt., City Bk. Bldg., both Shreveport.

La., Sarepta—Webster Parish School Bd., Minden, let contract at \$52,052 to H. Cleveland for public school; Edw. F. Neild, Archt., City Bk. Bldg., both Shreveport. 3-1

La., Sarepta—Webster Parish School Bd., Minden, let contract at \$52,052 to H. Cleveland for school; brick, 2 stories; Edw. F. Neild, Archt., City Bk. Bldg., both Shreveport. 3-1

Mo., Columbia—Gamma Phi Beta Sorority erect \$40,000 sorority house; brick, conc., 3 stories, 34x75 ft.; hollow tile, oak floors; Bill & Traber, Archts., 1008 E. Broadway; C. B. Rollins, Jr., Contr.

Okla., Ada—Bd. of Education, Mabel Brown, Clk., let contract to Acme Construction Co., 538 S. Kenosha St., Tulsa, for \$200,000 high school; Albert S. Ross, Archt. See Want Section—Building Material and Equipment. 3-15

Okla., Norman—State Bd. of Affairs, G. S. Wollard, Chmn., Oklahoma City, let contract at \$424,220 to C. M. Dunning Construction Co., 420½ N. Hudson St., Oklahoma City, for library University of Oklahoma brick, stone, rein. conc., fireproof; Layton, Hicks & Forsyth, Archts., Braniff Bldg., Oklahoma City. 3-8

Tenn., Johnson City—East Tennessee Teachers College let contract at \$145,415 to Pyle Bros., Kingsport, for training school; conc., brick, terra cotta, 3 stories, 26x85 ft., wood and terrazzo floors, comp. roof, conc. foundation; R. H. Hunt Co., Archt., James Bldg., Chattanooga. See Want Section—Building Material and Equipment. 3-22

Tenn., McMinnville—Town, Edgar Heneagar, Recorder, let contract at \$48,500 to Crichlow-Yearwood Co., Murfreesboro, for school; Geo. D. Waller, Archt., 911 Ind. Life Bldg., Nashville. 3-8

Tex., Alpine—Sul Ross Normal College, W. H. Morelock, Pres., let contract to San Antonio Construction Co., Bldrs. Ex. Bldg., San Antonio, for \$35,000 gymnasium; semi-fireproof, 1 story and part basement, 70x100 ft.; Ralph H. Cameron, City Natl. Bk. Bldg., San Antonio. 1-12

Tex., Harlingen—Harlingen School Dist. erect \$46,000 school; brick, conc., 1 story; Meriwether & Sauers, Contrs.

Va., Farmville—State Teachers' College let contract to John F. Barbour & Sons, Roanoke, for \$115,000 dormitory. Pine St.; brick, 3 stories; heating, W. J. Bloomfield.

Va., Roanoke—School Bd., J. S. McDonald, Clk., let contract to John C. Senter, 919 Maiden Lane, for \$132,000 school, Sherwood Ave. and Carter Rd.; brick, stone, conc., 2 stories and basement; heating, R. H. Lowe & Co., Salem Ave.; H. M. Miller, Archt., Shenandoah Life Bldg.

Stores

Ark., Gurdon—G. F. Norman erect store addition, Main St.; brick, 50x169 ft., 1 story, comp. roof; E. B. Taylor, Contr.

Ga., Atlanta—G. H. Butler, 712 Glenn Bldg., erect \$20,000 store, 1396 Blashfield St.; brick, 1 story, 60x170 ft., tar and gravel roof, conc. floor; owner builds.

Ga., Atlanta—Massell Realty Co., 61 Poplar St., erect \$18,000 store, Ponce De Leon Ave.; brick, 1 story, 60x120 ft., built-up roof, terrazzo floors, brick foundation; E. C. Seiz, Archt., 61 Poplar St.; owned builds. See Want Section—Building Material and Equipment. 3-22

Ga., Waycross—Scott T. Beaton let contract to D. W. Morgan for \$25,000 store; brick, conc., 2 stories, 50x160 ft., comp. roof.

La., Lake Charles—J. C. Penney Co., F. E. Kendrick, Mgr., 409 Texas St., let contract to McDaniel Bros. for remodeling store, Ryan and Broad Sts.; \$15,000.

La., Shreveport—J. M. Clark erect brick store, 2600 Southern Ave.; E. A. George, Archt.; H. Cleveland, Contr., both Gliddens-Lane Bldg.

Mo., St. Louis—J. G. Broeckelman, 5220 Sutherland Ave., erect \$23,000 store and apartment building, Gravois and Winebago St.; brick, 2 stories and basement, 49x70 ft., oak floors; Adolph F. Stauder, Archt., 6032 S. Kingshighway Blvd.; Fischer Bros., Contrs., 3819 Michigan Ave.

Mo., St. Louis—M. Cafferata, 4514 Delmar Blvd., erect store addition, 4514-18 Delmar Blvd.; brick, 2 stories, conc. comp. shingle roof, hardwood floors, \$10,000; Gerhard Becker, 425 Georgia Ave., Ferguson, Mo.; F. J. Honnerkamp, Contr., 5986 Delmar Blvd.

Mo., St. Louis—J. Lutter, 6205 Arsenal St., erect \$15,000 store and apartment, 3707 S. Kingshighway Blvd.; brick, 2 stories and basement, 37x50 ft., hardwood floors, comp. roof; C. E. Etz, Archt., 110 N. Seventh St.; Arsenal Watson Co., Contr., 3359 N. Union St.

Mo., St. Louis—F. Lind, Seventh and Lucas Sts., remodel store, 801 Franklin Ave. Nat. Abrahams, Inc., Contr., 707 Equitable Bldg.

N. C., Monroe—Monroe Hardware Co., erect store; limestone, red pressed brick, metal tile; J. S. Stearns, Contr.

S. C., Rock Hill—Gib H. Greene erect \$10,000 store; R. H. Deese, Contr.

Tex., Alpine—Otis Turner erect 2 stores, Sixth St.; J. C. Bean, Contr.

Tex., Harlingen—W. H. Burke has contract for 2-story store, brick, hollow tile, conc., east stone trim; W. R. Varner, Archt.

Tex., San Angelo—Houston & Schultz erect 5 stores, Beauregard and Monroe Sts.; \$70,000; Carter & Hall, Contrs.

Va., Martinsville—A. T. Jones erect \$28,000 store and hotel building, Fayette and Jones Sts.; brick, steel and frame, 3 stories, 98x82 ft., 8 stores, 28 guest rooms; Fuqua Construction Co., Contr., Krise Bldg., Lynchburg.

Theaters

Fla., Tampa—Horne Building Co., J. T. Horne, Pres., let contract to E. S. Moore for \$150,000 theater; steel frame, face brick, hollow tile, stucco, 3 stories, 158x105 ft., built-up roof, rein. conc. floors and foundation; east stone let; B. C. Bonfoey, Archt., Stovall Bldg. See Want Section—Building Material and Equipment. 3-15

Warehouses

Fla., Jacksonville—F. B. Martindale, E. 14th St., erect \$15,000 warehouse, 2321 Liberty St.; brick, tile, 1 story; E. A. Yelvington, Contr.

Mo., St. Louis—W. A. Miller, 920 N. Main St., erect \$10,000 warehouse, 928 N. First St.; brick, 2 stories, 48x119 ft., tar and gravel roof; J. T. Nicolson, Contr., 926 N. Sixth St.

Mo., St. Louis—Midwest Piping & Supply Co., 1452 S. Second St., erect warehouse addition, Miller and Kosciuszko St.; brick, rein. conc., 1 story, 120x41 ft., comp. roof; Klipstein & Rathman, Archt., 316 N. Eighth St.; James H. Bright Construction Co., Contr., 1824 Arcade Bldg.

Tenn., Jackson—John H. Johnson & Sons, N. Liberty St., erect \$15,000 warehouse addition, Bolivar and Main Sts.; conc., steel,

Charleston (S. C.) Year Book.—More than 300 pages of important information are contained in the Year Book of the City of Charleston, S. C., for 1926, opening with the personnel of the city government and closing with Mayor Thomas P. Stoney's annual review. The information covers every line of activity usual to a flourishing city.

Trade Literature

Lift Trucks and Platforms.—Two attractive booklets from the Steubing-Cowan Truck Company of Cincinnati give information and illustrations covering its types of lift trucks and platforms. Complete standardization has been carried to its maximum in Stue Bing-Cowan design, the company says, and, "for instance, parts made for trucks that Good-year buys today could be used on the first truck, No. 146, that they purchased nearly 15 years ago." The Blue Streak has 2500 pounds capacity and Model K 6000 pounds, while Model X handles loads up to 18,000 or 20,000 pounds and other models are equally substantial in their ways. The steel-bound platforms have oak tops, clamped between two heavy rolled-steel angles and bolted.

Mixers.—Artistic illustrations and informative reading material are features of a booklet issued by the Jaeger Machine Company, Columbus, Ohio, describing the mixers, "placing" plants, special attachments and pumps and hoists manufactured by that company. Aluminum mineral paint is used on the machines. In an analytical illustration of one type of mixer are shown Timken roller bearings enclosed non-leaking shaft bearings, twin blades, grease chamber, with pressure grease cup, "flat spot" drum giving a folding remixing action and massive semi-steel yoke, the big chilled pinion being covered with guard. Many other illustrations are given, with informative text.

Burlington, N. C.—An attractive brochure issued by the Burlington (N. C.) Chamber of Commerce, H. B. Skinner, secretary, sets forth convincingly the advantages of that city for manufacturing purposes, as an agricultural center, as a "modern city" and as a "decidedly pleasant place in which to live." For industry there are fine sites, convenient to transportation facilities; for agriculture there are "many thousands of acres of highly productive land" within a radius of 50 miles; for residence there are attractive homes, fine churches and schools and ample facilities of indoor and outdoor exercise, recreation and entertainment. The population is given as 11,000 and is said to be growing substantially.

Water Supply.—Under the title, "Gravity Water Supply," a booklet is issued by the Chicago Bridge and Iron Works, Chicago, Ill., describing the use of steel tanks in providing gravity pressure for private and municipal water-works systems. The frontispiece shows a 2,000,000-gallon elevated tank in the Charleston (S. C.) municipal system and 15 structures, ranging from 30,000 gallons to 500,000 gallons capacity, are shown. Also, there is information regarding tank capacities and dimensions and tables with those connected with the installation and operation of water-works systems.

Textured Wall Finishes.—Textone and its accessories and proper methods for the use of textured wall treatments are described in an elaborate pamphlet issued by the United States Gypsum Company, Chicago. Textone is a plastic paint designed for rough or textured wall decoration, and may be applied by a painter over any properly prepared solid and substantial surface that can be satisfactorily painted. Also, there are the Textone Sealer, Textone Glaze, Texsand, Greenspar, Sand Blower, Adhesive Tape, Sheetrock Reinforced Joint System, Red Top Patching Plaster and Smoothing Tool.

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies	Building Materials and Equipment	Bids Asked
Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.	This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.	Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.
Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.		

Machinery and Supplies

Boiler.—Hackley Morrison Co., Inc., (Mch. Dealer) 204 N. Jefferson St., Richmond, Va.,—Wants 150-200 h. p. economic type boiler, 125 lb. pressure.

Boiler.—J. G. Cook, 407 Stormfelt's Lovely Bldg., 7310 Woodward Ave., Detroit, Mich.—Wants 200 h. p. Scotch marine or locomotive type boiler, must be ASME and pass for 150 lb. pressure in Michigan; wire.

Cars.—See Railroad Equipment, etc.

Cheese Making Machinery.—Cumberland Cheese Co., Inc., Cumberland, Va.—Wants all necessary equipment to make cheese.

Concrete Pipe Forms.—Box 739, Winston-Salem, N. C.—Wants new or second-hand concrete pipe forms, 24 to 60-in.

Ditching Machine.—Cuttino & McLellan Realty Co., 140 N. Main St., Sumter, S. C.—Wants ditching machine for farm drainage, ditches 10 ft. deep, 2 to 3 ft. bottom; state condition, etc.

Gas Engine.—Collinston Grocery Co., Collinston, La.—Wants 8 h.p. small natural gas engine to take place of 5 h.p. electric motor used in operating an ammonia compressor; engine base to be small size as motor.

Locomotives.—See Railroad Equipment, etc.

Motor.—See Pumps (Dredge).

Pump (Dredge).—J. R. Christian, 1601 Post-Dispatch Bldg., Houston, Tex.—Wants 15-in. centrifugal pump direct connected to 400 to 500 h. p. motor, use for gravel dredge pump.

Rails.—See Railroad Equipment, etc.

Railroad Equipment, etc.—Bacon-Fuller Coal Co., Asa B. Fuller, Sec., Cullman, Ala.—Wants equipment to handle 1,000 tons of coal and clay daily, 15 to 20 miles over narrow gauge road, about 30 lb. rails, road to be constructed with not over 5% grade.

F. W. Benton, Archt., Fidelity Mutual Bldg., Wilson, N. C.—Wants to correspond with concerns that manufacture new patented articles, also that contract for manufacture of special machines.

Hunter Machinery Co., Marion, N. C., wants following:

- (1) **Boiler**—350 or 400 h.p. water tube, Sterling or Babcock, 200 lbs. pressure
- (2) **Fire Pump**—steam driven Underwriter's, 750 or 1000 gal.

Water Works.—Texas Water Co., V. A. Robinson, Supv. Engr., 1003½ Houston St., Fort Worth, Tex., plans \$40,000 improvements and wants:

- (1) **Pipe (Cast Iron).**
- (2) **Pipe (Galvanized).**
- (3) **Tank (Steel).**
- (4) **Tile (Sewer).**
- (5) **Pumps**—centrifugal and deep well.

Midvale Manganese Co., Midvale, Va., wants prices on following for mining manganese:

- (1) **Air Compressor**
- (2) **Cars**—mine, ore
- (3) **Cable**
- (4) **Engine**—gasoline hoisting
- (5) **Electric Light Plant**
- (6) **Drills**
- (7) **Aerial Tramway**—half-mile long
- (8) **Small Tools**
- (9) **Camp Equipment**
- (10) **Engineering Instruments**
- (11) **Mining Equipment, etc.**

High Point Corporation, Nat West, Gen. Mgr., Panama City or Marianna, Fla., has 2080 acres, developing 200 for sports club and fruit farms and wants:

- Pump**—suction to fill in beach
- Tractor**—small second hand
- Stump Pullers.**

Westchester Engineering Co., 5 W. 1st St., Charlotte, N. C., wants:

- (1) **Boilers**—2 to 5 h.p., vertical.
- (2) **Churns**—100-gal. capacity, electric and engine driven.
- (3) **Electric Ice Machinery**—power requirement of not over 2 h.p. motor.

Sheet Copper and Zinc.—National Shingle Machine Co., Inc., 320 Karp Bldg., Coral Gables, Fla.—Wants sheet copper and zinc in rolls.

Tank and Tower.—Harry Donkle, care of Houston Compress Co., Houston, Miss.—Wants prices on 40,000 or 50,000 gal. tank with 50 to 75-ft. tower, f.o.b. cars; give full description.

Woodworking Machinery.—J. R. Culp, Remington, Va. Wants data and prices on machinery for chair and coop factory.

Guyan Machine Shops, Logan, W. Va., wants:

- (1) **Air Compressor**—4x4-in.
- (2) **Cylinder Grinder**—for auto and truck
- (3) **Elevator**—for 2-story bakery, electric or belt driven
- (4) **Motors**—A. C. and D. C., 7½, 10 and 15 h.p., 220 and 250-volt
- (5) **I-Beam Hoist**—1 or 2-ton capacity, AC or DC.
- (6) **Iron Worker**
- (7) **Japanning Oven**—for baking large armatures, natural gas or electric heat
- (8) **Lathe**—for turning steel tires and steel locomotive wheels up to 40-in. diam., 32 to 48-in gauge
- (9) **Punch and Shear**—prefer No. 1½ Buffalo Universal
- (10) **Steel Sash**—for 2-story garage, 60x110
- (11) **Safe Cabinet**—large, fireproof
- (12) **Taper Attachment**—for 22-in. American lathe
- (13) **Lifting Magnet**—220 volts.

Miscellaneous

Bank Fixtures.—Industrial Bank of Lexington, Lexington, N. C.—Wants bank fixtures.

Brick (Paving).—City of Newbern, N. C., Alfred A. Kafer.—Wants prices on several cars paving brick, send samples.

Celluloid, etc.—E. H. Moore, Marshville, N. C.—Wants prices on sheet celluloid, also on a non-breakable, non-inflammable transparent sheet similar to celluloid.

Hauling.—G. Y. Carpenter, Chester, Va.—Wants sub-contractors to haul 2-ton batches in Virginia, long job ready to start, 7-mi. haul over concrete.

Photographic Supplies.—Grover C. Serenbetz, 930 Malaga Ave., Coral Gables, Fla.—Wants to purchase direct from manufacturer about 100,000 folios.

Sand Paper.—Shelby Supply Co., Shelby, N. C.—Wants data on emery cloth and sand paper.

Dade Canning & Preserving Co., Inc., Hialeah, Fla., wants following:

- (1) **Glasses, Tumblers, Jars, etc.**—sizes, 3-oz. to 32-oz for preserves
- (2) **Machine** for putting lids on tumblers.

High Point Corp., Nat West, Gen. Mgr., Panama City or Marianna, Fla., developing 20 acres for sport club and fruit farms, and wants:

- (1) **Landscape Work**
- (2) **Lawn Seed**—to grow near salt water.

J. J. Womack, Pres., Kats Klaw Auto Boot Co., Inc., R. No. 1, Box 1, Oklahoma City, Okla.—Wants to contract for manufacture of patented auto boot for rim cut tires.

Building Material and Equipment

Chas. H. Hopson, Archt., Atlanta, Ga., wants prices on following for \$35,000 church, Decatur, Ga.:

- Cast Stone**
- Flooring**—hardwood
- Roofing**—asbestos shingle.

B. C. Bonfoey, Archt., Stovall Bldg., wants prices on following for \$150,000 theater, Tampa, Fla.:

- Flooring**—linoleum, terrazzo, tile, comp.
- Marble**
- Metal Doors**
- Roofing**—built-up, tile
- Sprinklers**
- Steel Sash and Trim**
- Tile**—gypsum, hollow, interior
- Ventilators**
- Wire Glass.**

R. W. Burrowes, Contr., Bartow, Fla., wants prices on following for passenger station, Lake Wales, Fla.:

- Flooring**—composition
- Sheetrock.**

Warren, Knight & Davis, Archts., Empire Bldg., Birmingham, Ala., want prices on following for \$50,000 church, Auburn, Ala.:

- Cast Stone**
- Flooring**—hardwood
- Metal Doors**
- Roofing**—slate.

Warren, Knight & Davis, Archts., Empire Bldg., Birmingham, Ala., wants prices on following for fraternity houses, Auburn, Ala.:

- Cast Stone**
- Flooring**—hardwood
- Roofing**—slate.

Robt. G. Amo, 1526 N. Parkway, Memphis, Tenn., wants prices on following for \$20,000 residence:

- Roofing**—tile
- Tile**—interior
- Terra Cotta Trim**
- Ventilators**
- Brass or Bronze Work.**

L. Effron, wants prices on following for store, Chattanooga, Tenn.:

- Elevators**
- Flooring**—tile
- Marble**
- Metal Ceilings**
- Metal Doors**
- Plaster Board**
- Sprinklers**
- Ventilators.**

Rev. A. S. Raper, Pastor, Methodist Church, Lexington, Miss., wants prices on following for \$40,000 church:

- Cast Stone**
- Flooring**—hardwood, linoleum.

Burt Stuart, Archt., Meridian, Miss., wants prices on following for school, Decatur, Miss.:

- Flooring**—pine
- Metal Ceilings**
- Plaster Board**
- Roofing**—built-up
- Steel Sash and Trim**
- Tile**—hollow
- Ventilators.**

W. L. Whipkey, Bldr., Apopka, Fla., wants prices on following for dwelling:

- Flooring**—linoleum
- Roofing**—asphalt shingle;
- also wants sub-bids on:
- Coil Heater with Range Boiler**
- Electrical Fixtures**
- Plumbing and Bathroom Fixtures and Sink Wiring.**

M. C. Coogan, Sayre, Okla.—Wants prices on:

- Electrical Fixtures**
- Hardware**
- Plumbing**

James Ruskin Baily, Archt., 905 Public Natl. Bk. Bldg., Houston, Tex., wants prices on following for \$100,000 hotel:

- Cast Stone**
- Electric Refrigerators**
- Flooring**—terrazzo, tile
- Marble**
- Metal Doors**
- Roofing**—built-up
- Wire Glass.**

Giesecke & Harris, Archts., 207 W. Seventh St. Austin, Tex., wants prices on following for \$88,000 hospital:

- Cast Stone**
- Dumb Waiters**
- Electric Refrigerators**
- Elevators**
- Flooring**—linoleum, terrazzo, tile, composition
- Incinerator**
- Marble**
- Roofing**—built-up
- Steel Sash and Trim**
- Tile**—gypsum
- Ventilators.**

Barnes Elliott, Old Hickory, Tenn., wants prices on following for \$125,000 hotel, Hadley Ave.:

Flooring—terrazzo
Roofing—built-up
Steel Sash and Trim
Ventilators.

E. C. Leiz, Archt., 61 Poplar St., Atlanta, Ga., wants prices on following for \$18,000 store, Ponce De Leon Ave.:

Cast Stone
Flooring—hardwood, terrazzo, tile
Limestone
Marble
Metal Doors
Roofing—built-up
Steel Sash and Trim
Terra Cotta Trim.

Long & Short, Inc., J. Frank Short, Mgr., Federalsburg, Md., wants prices on following for store:

Flooring—composition
Fire System
Freight Elevator.

Albert S. Ross, Archt., Ada, Okla., wants prices on following for \$200,000 high school:

Flooring—hardwood, tile
Incinerator
Limestone
Metal Doors
Roofing—built-up
Steel Sash and Trim
Tile—hollow
Vaults
Ventilators
Wire Glass.

L. S. Sedberry, 28 Winchester St., Gallatin, Tenn., wants prices on following for \$25,000 church:

Flooring—hardwood
Marble
Plaster Board
Roofing—asbestos shingle, asphalt shingle, built-up
Tile—gypsum, hollow, interior.

John Edgar Sohl, Archt., 1107 Connecticut Ave., Washington, D. C., wants prices on following for \$125,000 apartment:

Cast Stone
Electric Refrigerators
Flooring—hardwood, tile
Incinerator
Metal Doors
Plaster Board
Roofing—built-up
Tile—hollow.

James Stewart & Co., Inc., 507-09 Evans Bldg., Washington, D. C., estimating on \$1,000,000 bank and office bldg. for Kanawha Valley Bk., Charleston, W. Va., Alfred E. Bosson, Archt., 680 Fifth Ave., New York, wants bids on all lines, including alternates, until Apr. 5.

Pyle Bros., Contr., Kingsport, Tenn., wants prices on following for \$165,000 training school, Johnson City, Tenn.:

Flooring—hardwood, terrazzo, tile
Roofing—built-up
Tile—hollow.

Frank Tennille, care Frank Tennille Furniture Co., 109 Commerce St., Montgomery, Ala., wants prices on following for \$46,000 warehouse:

Cast Stone
Electric Refrigerators
Elevators
Flooring—composition
Metal Doors
Sprinklers
Wire Glass.

Woman's Department Club, Mrs. I. S. Barrett, Box 447, Childress, Tex., wants prices on following for \$25,000 club building:

Cast Stone
Flooring—hardwood
Roofing—built-up, tile.

Will H. Lightfoot, Archt., Smith Bldg., Amarillo, Tex., wants price on following for \$100,000 church, Pampa, Tex.:

Cast Stone
Dumb Waiters
Flooring—hardwood, linoleum
Limestone
Rolling Partitions
Roofing—built-up, tile
Steel Sash and Trim
Ventilators.

Bell Bros. & Co., Contr., Murfreesboro, Tenn., wants prices on following for \$180,000 hotel:

Flooring—terrazzo, tile
Vault Door;
Also wants sub-bids on:
Marble.

E. E. Christopher, Archt., 317 N. 11th St., St. Louis, Mo., wants prices on following for \$40,000 apartment, Bates and Grace Sts.:

Electric Refrigerators
Flooring—hardwood
Roofing—built-up.

Mrs. Sam Goldberg, Pittsburg, Tex., wants prices on building material for dwellings, including hardwood flooring.

O. R. Klepper, Sec., Danla Lodge No. 209, F. & A. M., 1821 Cleveland St., Hollywood, Fla., wants descriptive literature and prices on lodge furniture for \$30,000 temple.

McKenzie Construction Co., 716 Travis Bldg., San Antonio, Tex., receives bids Apr. 9 for following for \$3,000,000 Smith-Young Bldg.:

Marble
Metal Windows and Doors
Millwork
Sheet Metal and Roofing
Terrazzo;
Also extended date to Apr. 9 on
Elevators
Elevator Fronts.

R. P. Poole, Contr., 664 Linwood Ave., Atlanta, Ga., wants prices on following for apartment, Virginia Ave.:

Electric Refrigerators
Floors—hardwood, tile terrazzo
Mail Chutes
Metal Doors
Plaster Board
Roofing—tin and composition.

J. Addison Smith, Engr., 1201 Asheboro St., Greensboro, N. C., wants prices on following for dwellings:

Flooring—hardwood, linoleum, tile
Roofing—slate, green tile;
Also sub-bids on
Electrical Work
Metal Lath
Painting.

Bids Asked

Artesian Wells.—City of Picayune, Miss., B. Whitfield, Mayor—Bids Apr. 9 for boring 2 artesian wells.

Boilers.—Treas. Dept., Office of Supvg. Archt., Washington, D. C.—Bids Apr. 9 to remove old and install 3 new boilers in U. S. P. O. and C. H., Pittsburgh, Pa.

Bridge.—Belzoni, Miss. See Construction News—Bridges, Culverts, Viaducts.

Coal.—Mississippi River Comm., 1st and 2nd District, Memphis, Tenn., bids Apr. 16 for 18,000 tons mine run coal and 6000 tons lump coal.

Cotton Undershirts.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids Apr. 16 for 150,000 cotton undershirts, delivery Philadelphia, Pa. Sch. 507.

Culvert.—Independence, Mo. See Construction News—Bridges, Culverts, Viaducts.

Deep Well Pump.—Quartermaster, United States Army, 3d Corp, Baltimore, Md.—Bids Apr. 13 for furnishing and installing deep well pump at Ft. Hunt, Va.

Gas Distributing System, etc.—City of Vidalia, La., Philip Hough, Mayor.—Bids Apr. 10 for natural gas distribution system; alternate bids on 2-in. and 3-in. main line pipe and on welded joint connections and flange joint connections.

Gasoline and Kerosene.—Panama Canal, L. A. Flint, Genl. Purchasing Officer, Washington, D. C.—Bids Apr. 9 for bulk motor grade gasoline and kerosene; Sch. 1867.

Gravel.—Farmersville, La.—See Construction News—Roads, Streets, Paving.

Heating Equipment.—Contracting Officer, Quartermaster Dept., Ft. Bliss, Tex., Bids Apr. 12 for 13 arcolas, 13 water regulators, 13 trimmings, 13 fittings, radiator valves, etc.

Lanterns and Burners.—Depot Quartermaster, Marine Corps, Philadelphia, Pa. Bids Apr. 14 for 3000 oil lanterns and 800 lantern burners.

Leather.—U. S. M. C., Quartermaster Dept., Washington, D. C.—Bids Apr. 24 to furnish 9000 sq. ft. russett leather and 5000 lbs. buff leather. Sch. 508.

Light System.—Office of Public Buildings and Parks, Washington, D. C. Bids Apr. 9 for light protection system for Lincoln Memorial in W. Potomac Park.

Lumber.—Jefferson County Auditor, Beaumont, Tex.—Bids Apr. 2 for 2 min. cars of 3x3-16, 90% heart bridge lumber, f. o. b. Griffing, Tex.

Lumber.—Bureau Supplies and Accounts, Navy Dept., Washington, D. C.—Wants 468,000 ft. B.M. white oak timber, 14½x14½, 25 and 31 ft., 14½x15½, 11 and 16 ft.; top bearing blocks 14½x14½ 4 and 8 ft. for use repairing dry dock No. 4, Navy yard, New York.

Map Case and Blue Print Supplies.—Q. M. Supply Officer, 20th and C. Sts., Washington, D. C.—Bids Apr. 6 for map case, 200 rolls blue print paper, 100 rolls brown print paper, 300 lbs. bichromate of potash, etc.

Mechanical Stokers.—Bd. of Awards, Office of City Register, Baltimore, Md. Bids Apr. 4 for mechanical stokers at Baltimore City jail; C. G. Goob, Ch. Engr.

Miscellaneous Supplies.—Bureau of Supplies and Accounts, Navy Dept., Washing-

ton, D. C.—Bids Apr. 3 for Naval Supply Depot, Brooklyn, N. Y.:

Fire extinguishers, lumber, motor ambulance and trucks, pneumatic tools, bleached and unbleached drill, steel bars, etc.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids Apr. 13 for following; Sch. 1868:

Steel, wire rope, bolts, culvert bulkheads, hacksaw machines, air compressor, steam hammer, arbor presses, oil burning furnace, buffing and grinding machines, trolley hoists, etc.

Paper (Postage Stamps).—Director Bureau of Engraving and Printing, Washington, D. C. Bids Apr. 26 for 1,000,000 sheets and 2,000,000 lbs. postage-stamp paper for delivery during fiscal yr. 1929.

Paving.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Pipe and Fittings.—Quartermaster, Ft. Reno, Okla. Bids Apr. 2 for 10,450 ft. galv. iron pipe and fittings.

Pipe (Cast Iron).—See Water Works.

Plumbing Supplies, etc.—Quartermaster United States Army, 3rd Corp, Baltimore, Md. Bids Apr. 6 for china closets, sinks, soil pipe, bends, reducers, valves, etc.

Road.—Amarillo, Tex. See Construction News—Roads, Streets, Paving.

Road.—Sedalia, Mo. See Construction News—Roads, Streets, Paving.

Road.—Farmerville, La. See Construction News—Roads, Streets, Paving.

Road.—Pontotoc, Miss. See Construction News—Roads, Streets, Paving.

Road.—Raymondville, Tex. See Construction News—Roads, Streets, Paving.

Road.—Paducah, Tex. See Construction News—Roads, Streets, Paving.

Roads.—State of Maryland. Bids for 9 roads. See Construction News—Roads, Streets, Paving.

Roads.—Ackerman, Miss.; bids for 4 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Road Building Materials.—Q. M. Supply Officer, 20th and C. Sts., Washington, D. C. Bids Apr. 9 for 55 tons rock asphalt, 30 tons limestone, 5 tons conc. sand and 500 gals. tarvia.

Roads.—State of Arkansas. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—Van Buren, Ark. See Construction News—Roads, Streets, Paving.

Roads.—State of Kentucky. Bids for 10 roads. See Construction News—Roads, Streets, Paving.

Road Maintenance.—State of Texas. Bids for 20 roads. See Construction News—Roads, Streets, Paving.

Road Machinery.—Neuces County Auditor, Corpus Christi, Tex. Bids Apr. 17 for following:

- (1) Grader—12-ft., Russell blade
- (2) Tractors—50 h.p. Drawbar, crawler type and 2-ton crawler type
- (3) Maintainer—No. 4 Russell road.

Sewers.—City of Brookhaven, Miss. Bids Apr. 3 for materials and improving sanitary sewer system, including pumping station, 2 sewerage pumps, 1 mi. outfall sewer; W. B. Montgomery and Associates, Consult. Engr., Henry Memorial Bldg., Jackson.

Sewers.—Greater Greenville Sewer Dist. Comm., Greenville, S. C.; bids Apr. 17 for furnishing materials and building 5000 ft. 16-in. sewer pipe for Poe Mill line, 5400 ft. 16-in. for Woodside Mill line, 11,850 ft. 15 16 and 17-in. for Richland Creek line, 4300 ft. 20-in. for Brushy Creek line, 12,300 ft. of 16 and 20-in. for Reedy River line; J. E. Sirrine & Co., Engrs., Greenville.

Sewers.—City of Houston, Tex. Bids Apr. 4 for storm sewers Bellaire Blvd.; J. C. McVea, Engr.

Sewers.—Dist. Commrs., Washington, D. C. Bids Apr. 3 for 8304 ft. sewers 3 to 10 in.; information Room 427 Dist Bldg.

Stationery, etc.—Board of Awards, Office City Register, Baltimore, Md. Bids Apr. 11 for stationery, art, kindergarten and class room supplies for Dept. of Education, Madison and Lafayette Ave.; Joshua R. Jolly, Acting Sec. Bd. of School Commrs.

Street.—West Helena, Ark. See Construction News—Roads, Streets, Paving.

(Continued on page 100)

Advantages of Private Ownership of Electric Plants Contrasted with Public Ownership.

The Following Letter from Thomas W. Martin, President, Alabama Power Company, Compares the Average Charges of Electric Current of the Alabama Power Company, Privately Owned and Managed, with Several Municipally Owned Plants.

ALABAMA POWER COMPANY Birmingham, Alabama.

THOMAS W. MARTIN,
President.

February 25, 1928.

HON. J. THOMAS HEFLIN,
United States Senate,
Washington, D. C.

Dear Senator Heflin:

A number of tables and schedules prepared by Mr. Kenneth G. Harlan, Public Utility Expert for the City of Tacoma (Washington) municipally-owned plant were inserted in the Congressional Record, February 15, 1928, (pp. 3109-3131). Rates are quoted for the Tacoma plant and compared with rates in the privately-owned plants of the Alabama Power Company operating in a large portion of Alabama.

We desire to submit for your information and that of the Senate a statement showing the average rate on the system of the Alabama Power Company, which has been prepared on the same basis of average kilowatt-hour sales as was employed by Mr. Harlan, the expert of the publicly-owned plant in Tacoma, for purposes of comparison with rates in Alabama; and also relating to other statements in the Senate respecting this company.

Mr. Harlan says:

"The foregoing computations are based upon the combined amount of energy served annually to all classifications of business divided into the total revenue received, which gives the average rate of kilowatt hour, and which in the last analysis reveals the true status of the rate structure, irrespective of what may result in the comparison of rates at certain points or in certain schedules or classifications of service."—(p. 3111).

Mr. Harlan shows that the average rate in Tacoma per kilowatt hour is 1.0427 cents. He makes no attempt to show the average rate on the system of the Alabama Power Company. Since the Alabama Power Company in 1927 sold to and interchanged with utilities outside the State 422,747,000 kilowatt hours of energy, because of a supply of power from Muscle Shoals, this amount has been deducted for purposes of comparison. The comparative results follow:

Producer	Total kwh Sales	Revenues	Average Rate
Tacoma	168,648,489	\$1,758,558.30	1.04 cents
Alabama Power Company	1,050,107,427	13,079,600.02	1.2457 "

Thus the average rate per kilowatt hour on the system of the Alabama Power Company, serving almost a whole State, with many scattered communities, both large and small, only slightly exceeds that of the Tacoma plant serving a single large city. If state, county and municipal taxes and license fees were deducted the average rate for the Alabama Power Company system would be less than shown above. The average revenue per unit of output for the entire industry in the United States, in 1926, was 2.3 cents per kilowatt hour.

In this connection it is interesting to compare the average rate in Alabama with that of a number of outstanding municipally-owned plants, both excluding and including that of Tacoma. The comparative results follow:

Name of Producer.	Total kwh Sales.	Revenue.	¢ per kwh sold.
1. Seattle	178,819,600	\$3,859,042	2.17 cents
2. Cleveland	134,115,639	3,110,302	2.32 "
3. Los Angeles	488,538,323	11,190,323	2.30 "
4. Jamestown, N. Y. ...	16,532,364	482,849	2.92 "
5. Springfield, Ill.	18,016,267	479,613	2.66 "
6. Jacksonville, Fla. ..	54,621,675	2,169,957	4.00 "
Total of above.....	890,643,868	21,292,086	2.39 "
7. Tacoma	168,648,331	1,758,558.30	1.04 "
Total, inc. Tacoma.....	1,059,292,199	23,050,644.30	2.18 "
8. Alabama Power Co.....	1,050,107,427	13,079,600.02	1.24 "

1. Calendar Year 1926; Official Report City Lighting Department
2. Calendar Year 1926; Official Report Bureau of Municipal Light Plant
3. Year Ending June 30, 1926; Official Report Bureau of Light and Power
4. Calendar Year 1926; Public Service Commission of New York
5. Year ending February 28, 1927; Eleventh Annual Report City Water, Light and Power Department
6. Calendar Year 1926;
7. Year Ending September 30, 1927, including power sold to municipalities (Cong. Rec., Feb. 15, 1928, p. 3110)

8. Calendar Year 1927;

You will note:

- (a) That the average of the first six municipal plants mentioned is 2.39 cents per kilowatt hour, as compared with 1.2457 cents in the Alabama Power Company system.
- (b) That if Tacoma be included, the average rate is 2.18 cents for the seven municipal plants, as compared with 1.2457 cents in the Alabama Power Company system.
- (c) You will also note that while the total kilowatt hours sold in the seven municipal plants combined is about the same as the Alabama Power Company, the total receipts exceed that of the Alabama Power Company by nearly \$10,000,000.

Mr. Harlan correctly states that the average kilowatt-hour basis "reveals the true status of the rate structure irrespective of what may result in the comparison of rates at certain points or in certain schedules or classifications of service." Different physical and climatic conditions, the character and source of power supply, the extent of the territory served, and the nature of the business of the consumer make necessary a number of classifications of service and different schedules of rates to fit the varying conditions which prevail in different States. Questions arise from time to time in the adjustment and application of these schedules and classifications which are determined by the State commissions. Moreover, many factors are involved in the cost of service which make any direct comparison of rates as set up by Mr. Harlan at page 3110 of the Record, February 15, 1928, of little value. In the case of Tacoma, the ordinance upon which the rate is based specifically provides for the separate and individual negotiation and approval by the City Council of all contracts for blocks of power greater than 1000 kilowatts (Report and Information Book, Light Dept., Tacoma, 1925, p. 79). Mr. Harlan draws the same conclusion when he says that "such comparisons while they may be properly computed are void of any material importance, nor can they be seriously considered when true comparison of rates are sought." (p. 3110).

The Alabama Power Company has in recent years acquired twenty-three municipally-owned lighting plants, that are now connected with its distribution system. In each case the sale of the plant was first approved by the governing board of the city and then submitted to a vote of the people as is required by the laws of Alabama. In many instances the vote was practically unanimous. A study of the municipal rates in effect at the time of sale in these communities will show rates ranging from 10 cents to 25 cents per kilowatt-hour, and in most cases they were flat rates with but little reduction for increased use. However, while these communities were interested in obtaining a reduction in the lighting rates, they were specially interested in obtaining power which would attract industries into their communities.

Domestic rates in effect in all towns connected with the system of the Alabama Power Company range from 9 cents per kilowatt hour (with the exception of a few communities where it is 10 cents) for the first block of energy used for lighting purposes alone down to 5 cents per kilowatt hour. Where energy is also used for other household purposes such as cooking, water heating, ironing, washing, refrigeration, etc., the rate, dependent upon amount of consumption, goes down to 2½ cents per kilowatt hour. The result has been to increase greatly the number of customers as well as the per capita use of energy.

The following table shows typical rate results before and after the acquisition of municipally operated plants in Alabama.

NET LIGHTNING RATES

Town	Before Purchase	*Present	Percent Reduction
Albertville	12½ cents	9 cents	28
Boaz	12½ "	9 "	28
Camp Hill	13 "	9 "	30
Carbon Hill	11¾ "	9 "	20
Dadeville	12 "	9 "	25
Haleyville	20 "	9 "	55
Livingston	25 "	9 "	64
Ozark	15 "	10 "	33
Russellville	20 "	9 "	55
Union Springs	12½ "	9 "	28
Uniontown	18 "	9 "	50
Wetumpka	13½ "	9 "	33
York	18 "	9 "	50

*This reduces to 3½ and 2½ cents per kilowatt hour less 10% discount, where energy for cooking and heating is combined with lighting.

The City of Birmingham for many years owned municipal lighting and water plants serving part of the territory embraced within the corporate limits of Birmingham. An election was held on November 15, 1927, after extensive advertising, on the question of selling these plants for private operation, and was approved by a vote of the people. The sale was completed January 4, 1928.

Nine reasons why the City Commission favored the sale of the plants were given by Hon. J. M. Jones, President of the Commission, as follows:

"1. Because the people of North Birmingham have petitioned the City Commission to sell them.

"2. Because the patrons of these plants are not receiving as good service as other people of Birmingham.

"3. Because the people of North Birmingham are paying a higher rate for electricity than the rest of the people.

"4. Because the city is simply selling two distribution systems.

"5. Because the city is now buying current and water at wholesale from the utilities and retailing it.

"6. Because since 1910 the city has operated these plants at an annual loss of over \$11,000.

"7. Because the price offered for these plants is the appraised value fixed by Morris Knowles, Inc., a nationally known and impartial appraiser.

"8. Because the price offered for these plants is fair and reasonable, being the full appraised value as fixed by Morris Knowles, Inc.

"9. Because the City Commission pledges itself to spend the proceeds of these sales only in other paramount public improvements."

President Jones further said:

"It is the unanimous opinion of the City Commission that these plants should be disposed of for the best interest of the entire city. It is an excellent opportunity to turn a liability into an asset. If the plants are not sold the city must continue to operate them and take the loss that results. The responsibility is with the people. The commission is anxious for the people to have the full facts."

The case of Alabama Pipe Company, et als. v. Alabama Power Company, heard by the Alabama Public Service Commission and decided September 30, 1927, involved an adjustment of certain rates of the company. In the course of the opinion, the commission said:

"Every utility is entitled to just and reasonable rates as will enable it at all times to fully perform its duties to the public and will, under honest, efficient and economical management, earn a fair net return on the reasonable value of its property devoted to the public service. This is our law. However, this does not mean that rates for all classifications of service should be the same."—Alabama Power Co., *supra*.

"Representative of complainants made reference to the contract between the Alabama Power Company and the United States Government for the purchase of a portion of defendant's power requirements from the Wilson Dam plant, the price paid therefor, and the distance of the location of a number of complainant's plants from the Muscle Shoals power supply. No evidence was introduced, however, to sustain a contention that customers located nearer the Muscle Shoals source of supply should have preferential rates on account of the proximity of their plants to the source of supply.

"Complainants have not undertaken in this case to show by evidence that we are justified in so regulating defendant's rates for power generated at Muscle Shoals by the United States, as to require defendant to distribute and sell such power at lower rates to those nearby than to those farther distant within the State of Alabama. We are not prepared to say that the water power resources at Muscle Shoals should be distributed upon a basis founded upon a theory that such resources exist primarily for those nearby and that nearby customers should have a preference in rates over all other customers located in other parts of the State. Certainly no evidence has been offered in this case to justify any such conclusion.

"The defendant's rate structure, in so far as rates for power are concerned, is based on uniformity to

all communities served, and it has observed this basis since its hydro-electric system was first constructed and put into operation over fifteen years ago.

"The system of defendant utility, beginning with a single generating plant some fifteen years ago, has rapidly extended until its transmission system now covers the greater portion of the State, with many large sources of power supply. In addition to the Muscle Shoals source of supply, there are at present two large hydro-electric plants on the Coosa River, three hydro-electric plants on the Tallapoosa River, and three large steam reserve plants, in addition to defendant's interchange connection with other power companies.

"These large steam reserve plants are located in or close by the coal deposits of the State. Complainants, through their representative, have raised the question whether the power latent in the Coosa River, the Tallapoosa River and other streams of the State capable of generating hydro power sufficient to justify their development for this purpose, and that which is latent in the coal deposits within the coal fields of Alabama, should be distributed throughout the State under a rate structure which would require the more distant cities, towns and communities to pay a higher rate than those adjacent to the generating sources of such power because of such difference in distance. The thinking mind will see at once this raises a big question. To zone this State for rate making purposes in the distribution of such power would require an entire change in that plan of defendant's rate structure, which, as we have pointed out, has been followed since the defendant began such utility operations. Complainants have not furnished evidence to show that such change is justified, or if justified, what plan of rates would be just and reasonable on such new and different basis. Such a change would involve material interests of all the customers of the utility throughout the entire State and of every city, town and hamlet of the State. Even if these particular complainants had brought before us in this case substantial evidence in support of this zoning theory for rate making purposes, which has not been done, we would have to shut our eyes to most important and material interests of all those customers of defendant located in cities and communities other than those represented by the present complainants, if without notice to them and the right to be heard, we should undertake to require defendant in this proceeding to apply such zoning theory of rate making.

"Within the last few years the defendant, at the instance of the agricultural interests, has extended its transmission lines into rural communities, to make the State's power resources available to the farmer, to aid him, if possible, in the solution of his difficult problems, and in order to make home life upon the farm more attractive. The transmission of power from the sources named to the smaller towns and villages of the State makes every such town and village a

potential location for manufacturing industries. Economists who have given long and careful thought to the future development of Alabama are practically unanimous in the view that our State, as a whole, is best adapted to development as a manufacturing and industrial community, rather than an agriculture section. It is a matter of common knowledge that agriculture in Alabama is finding it increasingly difficult to compete in the production of cotton with States more favorably adapted, such as Texas and Oklahoma."

The rate schedules of this company have been developed with a view of serving the general purposes indicated in the foregoing opinion of the Commission. By far the greater portion of the energy sold in Alabama is used in industry; resulting as it does in the decentralization of industry throughout the State, creating payrolls and other advantages to the communities because of large available quantities of power.

In the recent "Commercial Survey of the Southeast", 1927, published by the Department of Commerce, at page 113, it is shown that in the twelve year period, from 1914 through 1925, manufacturing in the southeast increased in greater proportion than for the United States as a whole, the percentage of increase in the value of manufactured products in the southeast being 203 per cent, compared with 159 per cent for the country as a whole. The most recent two-year period shows extraordinary development, the combined value of manufactured products in the States of North and South Carolina, Georgia, Florida, Alabama and Tennessee having been \$305,138,380 more in 1925 than it was in 1923.

Reports from the Geological Survey show the output of power in the six states of North Carolina, South Carolina, Florida, Tennessee, Alabama and Georgia increased from 3,828,281,000 kilowatt hours in 1923 to 6,911,421,000 kilowatt hours in 1927, an increase of 78.6 percent compared with 46.8 percent increase in the same period for the nation as a whole.

The public utilities of the United States in 1927 showed an increase of power output of more than 8 per cent over 1926, while in the South the increase was more than 16 per cent over 1926, or twice the percentage of increase in the nation as a whole. This tremendous gain in power consumption not only explains the rapid growth of public utilities in the South, but also indicates the continued expansion of southern industry. It offers a yardstick for the measure of industrial development and in this respect reflects the greater activity experienced by southern industry in 1927 as compared with former years. New plants and plant enlargements have required additional power, and by the building of steam and hydro-electric generating stations, public utility power companies are endeavoring to supply the growing power needs of the South.—(Manufacturers Record, January 19, 1928.)

Continued growth in the South is closely related to the ability of the public utilities to supply increasing power needs for industrial and other purposes.

It has been stated that the Alabama Power Company is buying Muscle Shoals power at a very low rate under the temporary arrangement, in effect for two years, pending disposition of Muscle Shoals by the Congress. The rates under this contract are from two to four mills per kilowatt-hour for power for use in Alabama and in power systems in other States with which the lines of Alabama Power Company are interconnected. The agreement with the Secretary of War is to purchase power of the Government in lieu of operating steam plants on the system of the Alabama Power Company when the demand on its system or that of interconnected companies operating in other States requires a supply of power in excess of the water power resources on their own system. Therefore, operation of the Government plant has not been continuous.

Under these circumstances the price paid is graduated on a scale commensurate only with the increment cost for generating an equal amount of power from the several steam plants on the system of the Alabama Power Company. Furthermore, the arrangement is revocable on thirty days' notice, which means that the company must be prepared with plants sufficient to replace the Muscle Shoals power. This necessarily affects the price that can be paid for temporary use, because the company could not make firm contracts to furnish consumers with Muscle Shoals power and depend on a contract with the Government revocable on thirty days' notice. Such temporary arrangement deprives the Government of increased revenue which would come from maximum output secured through full use of power plant facilities especially the opportunity to utilize much of the secondary power going to waste because of inability to co-ordinate the plants with interconnected reserve plants in the coal regions and in other water sheds. Even under the present arrangement the Government has collected \$2,390,038 for 1926 and 1927.

The difference in price paid to the United States,—from two to four mills,—and the average received by the Alabama Power Company in 1927 for all power sold, does not represent profit. To this must be added fixed charges, operating expenses and other overhead, interest on investments in reserve steam plants, in transmission lines, substations and local distribution systems, and various forms of taxes, plus losses in transmission from point of generation to points of consumption throughout the State and into other States.

I am,

Very respectfully,

(Signed) THOMAS W. MARTIN,
President.

[ADVERTISEMENT.]

(Continued from page 95)

Street.—Merigold, Miss. See Construction News—Roads, Streets, Paving.

Street Signs.—Board of Awards, Office of Div. of Lighting, Municipal Bldg., Baltimore, Md. Bids Apr. 18 for single enamel, double enamel and ruby glass street signs; C. F. Goob, Ch. Engr.

Steel Towers.—Dept. of Agriculture, Washington, D. C. Bids Apr. 13 for 18 steel towers.

Suction Pipe, Castings, etc.—U. S. Enr. Office, Jacksonville, Fla. Bids Apr. 3 for ball and socket joints, stuffing boxes, suction pipe bends, suction pipe gate valves.

Tank and Tower.—See Water Works.

Tank and Tower.—Contracting Officer, Quartermaster Dept., Ft. Reno, Okla. Bids

Apr. 6 for 80,000 gal. steel tank, 80 ft. tower

Tires, etc.—State Highway Bd. of Ga., John N. Holder, Chmn., East Point, Ga.—Bids Apr. 19 for year's supply pneumatic tires, tubes and solid tires.

Waste and Linters.—Depot Quartermaster, Marine Corps, Philadelphia, Pa. Bids Apr. 10 for 1200 lbs. cotton linters and 25,000 lbs. cotton waste.

Water System.—Calhoun City, Miss., Morgan & Co., Inc., Edwards Bldg., Jackson, Engrs.—Bids Apr. 17 for well water system; plans being prepared for distribution system and pumping plant for same, opens bids in May.

Wire Screen, etc.—Pur. Officer, Field Artillery School, Ft. Sill, Okla. Bids Apr. 5 for 223 rolls wire screen, galv.; 108 screen doors, leather belt, and nails.

United States Steel Report.

Sincere tribute to the late Elbert H. Gary, for many years its head, opens the twenty-sixth annual report of the United States Steel Corporation for the fiscal year ending December 31, 1927, which gives the total value of business transacted by all the constituent companies, as represented by their combined gross sales and earnings, as \$1,310,392,861. The net income is given as \$105,418,368, and the surplus net income as \$12,863,514. The total undivided surplus, exclusive of profits earned by subsidiary companies on inter-company sales of products on hand in inventories, was \$363,044,913. Bonds aggregating \$17,514,824 were retired in the year and no issues were made, and the grand total bonded, debenture and mortgage debt was \$475,174,528. The inventory valuations were \$271,168,002, as compared with \$281,255,461 for the previous year. From April 1, 1901, to December 31, 1927, the net income was \$2,455,004,325, and the balance of earned surplus undivided, December 31, 1927, was \$338,044,913; capital surplus provided at date of organization, \$25,000,000; total undivided surplus, \$363,044,913. J. Pierpont Morgan is chairman of the Board, Myron C. Taylor is chairman of the finance committee, and James A. Farrell is president.

Tennessee Electric Power Company.

Gross earnings of \$12,515,759 for 1927, an increase of \$600,000 over 1926, are shown in the annual report of the Tennessee Electric Power Company, with net income available for dividends and retirement reserve \$3,520,390, an increase of \$260,000, and a balance of \$1,328,078, as against \$1,035,456 for 1926. Electric service was supplied directly to 123 communities and water service in five, gains of 17 and 3, respectively, while electric ice plants were operated in four communities. More than 45,600,000 passengers were carried by the transportation system. Approximately 82 per cent of the electric output was produced by water-power plants. Attention is called to the fact that taxes in 1927 amounted to 12.92 per cent of gross earnings, tax payments aggregating \$1,617,392. B. C. Cobb is president and chairman of the executive committee and T. A. Kenney and Jo. C. Guild, Jr., are vice-presidents. The general offices are at Chattanooga, Tenn.

Mr. Beckwith Returns to Byers Machine Co.

The Byers Machine Company, Ravenna, Ohio, announces the return of H. C. Beckwith as president and general manager, in line with the expansion program recently adopted by the company for the future. L. S. Shaffer is vice-president and C. H. Collier is manager of sales. The Byers Company recently purchased the Massillon Power Shovel Company, Massillon, Ohio, and has announced a complete line of shovels and cranes, including new Byers Bear Cat models, and Byers-Massillon gas, electric and steam powered shovels of 1 and 1½ cubic yard capacity.

Portable Acetylene Flare Light.

The Oxweld Acetylene Company, New York city, has added to its line a portable acetylene flare light, of extreme power. Carbide, in cakes, can be used as a charge sufficient for 12 hours of continuous operation and the light can be used in even most violent gales. In case the light upsets, gas generation is stopped at once. Styles range from 8000 candlepower, weighing 36 pounds empty and 115 pounds charged, down to a hand light. Also, there is a double burner model, to illuminate in two directions simultaneously.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Worthington Company Moves Offices.

The executive offices, export sales department and New York district sales department of the Worthington Pump and Machinery Corporation have been scheduled for removal, April 1, to 2 Park avenue, New York city, when also the head office sales and advertising departments go to the Harrison plant, 421 Worthington avenue, Harrison, N. J. The plant is adjacent to the Manhattan Transfer station of the Pennsylvania Railroad, and convenient to tube trains from New York and local trains of the Lackawanna Railroad.

Crushed Stone Plant for Sale.

Notice has been issued that the crushed stone and amiesite plant of the Florida Rock Products Company, a mile outside Brooksville, Hernando county, Florida, will be sold at 10 o'clock in the morning of April 20 at the office of H. P. Baya, referee in bankruptcy, First National Bank Building, Tampa. The plant, which is to be sold as a complete unit, is described as located in a valuable limestone formation, as modern and complete in all details and as favorably situated in regard to labor and transportation facilities. Bids will be received till the hour set for the sale. L. I. Buchanan, trustee, Wallace S. Building, Tampa, will furnish any desired information.

Lamb & Nash Line Is Sold.

The Shaw Crane-Putnam Machine Company, Inc., owned by Manning, Maxwell & Moore, Inc., has purchased the Lamb & Nash line of sheet metal machines, including the rotary gang slitting machines for shearing tin plate, hot mill sheets, blue annealed, brass, copper, aluminum and all classes of cold rolled steels which come hard, half hard and dead soft. The Lamb & Nash squaring shear is another important product. All machines of the Lamb & Nash line will be manufactured at the Putnam works of the Shaw Crane-Putnam Machine Company, Fitchburg, Mass.

Barber-Greene Office in Cincinnati.

The Barber-Greene Company of Aurora, Ill., manufacturers of standardized material handling machines, have established a new branch office at Cincinnati, Ohio. It will be under the supervision of Paul Frederick, district manager, who has been with the company for nine years and who has had several years' experience in the company's office at Detroit as a sales engineer. The new office in Cincinnati is at 431 Temple Bar Building.

Youngstown Sheet & Tube Report.

Substantial increase in the volume of business of the Youngstown Sheet and Tube Company, Youngstown, Ohio, and subsidiaries for January of this year is noted in the report of the directors to the stockholders for 1927, in which depression in the oil country trade and lower selling prices of zinc ore exercised some influence. With net profits and income of \$7,023,334, the company accumulated a balance of \$43,132,517, from which were deducted dividends running to \$5,934,907, leaving the balance as \$37,197,610 at the close of the year. Among assets of \$300,013,614 property accounts figured at \$203,468,680, while liabilities included: Capital, \$89,241,100; funded debt, \$75,000,000; current liabilities, \$10,244,018 and reserves, \$88,285,037. Nearly \$9,000,000 was spent for new construction, improvement of equipment and other capital investments and a new tin-plate plant at the Indiana Harbor Works, and the seamless tube mills at the Campbell works were put in operation. Through refunding all the bonded indebtedness was placed in one group of 5 per cent first mortgage bonds. J. A. Campbell is president and Frank Purnell is assistant president.

Wheeling Steel Corporation Report.

Sound and satisfactory business, "due largely to the corporation's diversity of products," is reported for the Wheeling Steel Corporation, Wheeling, W. Va., and its 14 subsidiary companies for 1927, with the outlook for 1928 described as "reasonably encouraging." Net profit for the year is given as \$4,028,916, on net earnings of \$8,690,568 from operations and \$830,530 interest and income from investments. After dividend payments of \$2,852,598 the sum of \$11,040,063 net surplus was carried to the balance sheet. Assets are given as \$112,528,419 and liabilities, without surplus mentioned, \$101,488,356, including \$4,745,277 of reserves. The outstanding funded debt is \$24,782,500. Sales ran to \$72,596,950; an average of 15,593 employees earned an average of \$1780, and the total payroll was \$27,756,135. Isaac M. Scott is president and Alexander Glass is chairman of the board.

Graybar Personnel Changes.

The Graybar Electric Company, New York city, announces the appointment of J. A. Mayer as Oklahoma manager, with headquarters at Oklahoma City, and the selection of R. W. Conrad as sales manager at Tulsa, Okla.



J. R. RAMSAY
2ND VICE-PRESIDENT OF THE
MONROE
HIGH POINT CLUB

MONROE CALCULATING MACHINES

Manufactured by
MONROE CALCULATING MACHINE COMPANY
GENERAL OFFICES: WOOLWORTH BUILDING, NEW YORK

DISTRICT OFFICES
401-3 MCGRAW-HILL BLDG.
ATLANTA, GA.

PLANT AT ORANGE, N. J. U. S. A.

February 29, 1928.

Mr. Richard H. Edmonds,
Manufacturers Record,
Baltimore, Md.

Dear Sir:

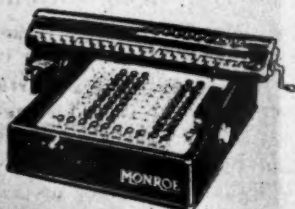
This is in answer to your letter of February 27th.

Since taking charge of the Southern territory in 1925 I have used the Manufacturers Record to splendid advantage, and it has paid for itself a thousand times over in connection with my sales development work in the Southern territory. The information it disseminates is comprehensive and authentic, and you are to be congratulated on the publication of this splendid aid to Southern development.

Very truly yours,

JRR:S

John E. Ramsay
Southern Division Manager.



\$2,000,000 Ship Repair Plant for Baltimore.

Bethlehem Shipbuilding Corporation Starts Work on New Unit—Four New Piers, Building Way and Shops to Be Erected.

Work has started on a ship repair plant involving the expenditure of \$2,000,000 for the Bethlehem Shipbuilding Corporation on Key Highway, Baltimore. Four 650-foot piers will be constructed, and a 7000-ton floating dry dock will be installed initially with provision for a 10,000 to 12,000-ton floating dry dock later. There is now a 600-foot graving dry dock on the property. A 350-foot building way will be constructed. Three Terry cranes of 15 tons capacity each will serve the piers. The main building, which will be erected directly back of and perpendicular to the piers, will be a steel and brick structure, 80 by 600 feet, to house the machine, steel fabricating, blacksmith, plumbing, pipe and sheet metal shops and the foundry. A gantry crane runs the full length of this building. On the Key Highway an attractive two-story office building and a power house of similar design will be erected, the latter to house the transformers, air compressors, boilers, etc.

Sanford & Brooks Company, Baltimore, have been awarded the contract for waterfront structures and dredging. Steel for the main building is being fabricated at the Bethlehem Steel Company's Bethlehem, Pa., plant. All construction will be under the supervision of the company's engineering department and all branches of the work will be sub-contracted.

J. M. Willis, general manager of the yard, states that the new project will be completed by November 1, 1928.

Urges Corporate Tax Reduction.

New York, March 26.—In an open letter to President Coolidge and to the members of Congress, John E. Edgerton, president of the National Association of Manufacturers, urges the passage immediately of a corporate tax reduction measure on the basis already suggested by the competent Government authorities, holding that the excess in the income tax returns over last year justifies a sane and reasonable relief to the only body of taxpayers that has had its assessments increased in the face of reductions for all others. In part, Mr. Edgerton said:

"The National Association of Manufacturers has thousands of corporations in its membership and several million employees who are dependent upon the continued operation of those industries. The corporations are the only class of taxpayers that have had their taxes increased (raised up to 13½ per cent), while all others have received reductions. Ninety per cent of all the business of the country is done in the corporate form and the stockholders number something more than 20,000,000 persons—nearly one-third of all our adult population.

"We submit that corporate tax reduction is the next logical step in any tax relief. It would be a great stimulus to prosperity. Industry and business need it, for we are now passing through an era of acute competition, consolidation and confusion—but not consternation. We are undergoing a gradual leveling down from our hysteria of war inflation of prices and wages. Manufacturers, as a whole, and general business, have accepted their lower profits with little or no complaint. Consumers have benefited by those shaded profits; but production costs and wages continue at a high peak, with no attempt to crush them down.

"Reductions granted to the corporations would mean a corresponding relief to a vast body of stockholders, large and small, and find their way to almost every individual in the country. Moreover, they would block a natural tendency toward unusual unemployment and lower wages, because it inevitably must follow that many corporations now on the edge will be able to continue in business instead of closing down."

For \$750,000 Church at Fort Worth.

Fort Worth, Tex.—The First Methodist Church, Dr. E. B. Hawk, pastor, has purchased a site 213 by 250 feet, at Fifth and Florence streets for a new building to cost \$500,000 to \$750,000.

Mexican Border Air Mail Route Bids Asked.

Proposals for bids on three alternate air mail routes between New Orleans and the Mexican border connecting at New Orleans with the Atlanta-New York route have been issued by Postmaster General New, returnable May 21.

May Vote \$100,000 to Locate Factories.

Waynesboro, Miss.—The Waynesboro Chamber of Commerce is promoting a movement for an election on an issue of \$100,000 of 20-year bonds for the purpose of donating funds to secure a cotton mill, canning factory and other industries.

Georgia Cotton Manufacturers Meeting.

Announcement is made by Secretary Theodore M. Forbes of the Cotton Manufacturers' Association of Georgia that President W. H. Hightower has selected April 5 and 6 as the dates for the twenty-eighth annual meeting, to be held in Augusta at the Forrest Hills-Ricker Hotel. An interesting program is promised by those in charge.

\$1,000,000 Financial Firm for Louisville.

Louisville, Ky.—The United States Bond and Mortgage Corporation, capitalized at \$1,000,000 preferred stock and 30,000 shares of no par common stock, has been organized here with John J. Davis, president; Richard R. Williams, vice-president, and Hugh B. Fleece, secretary-treasurer. The company will finance second mortgages.

\$600,000 Winston-Salem Church Let to Contract.

Winston-Salem, N. C.—General contract has been awarded to Jacob & Youngs, New York, for erecting a \$600,000 building here for St. Paul's Protestant Episcopal Church. The building will be 152 by 100 feet, 4 stories, of reinforced concrete, with slate and composition roof. Cram & Ferguson of Boston, Mass., are the architects and Harold Macklin, Winston-Salem, associate architect and construction supervisor.

Virginia Industrial Output Grows.

Richmond, Va., March 26.—The value of the output of Virginia industries almost doubled from 1916 to 1926, according to a report of the Virginia Department of Labor and Industry, the total for 1926, the latest figures available, having been \$667,850,437, compared with \$379,529,528 for 1916. Only in 1918 and 1920, when conditions were considered abnormal, did the total reach larger proportions than in 1926. Since 1921 a steady growth has been shown.

The tobacco industry led in 1926 at \$144,609,924; iron and machinery manufacture, second, \$43,314,587; products of abattoirs, third, \$29,785,327, and cotton mill products fourth. Coal production in 1926 was \$27,098,734, while automobiles come next, and silk mill products, pulp and paper, furniture, shipbuilding, flour and grist, peanut and coffee roasting and fertilizer and guano manufacture ranked next in the order named.

The S. S. Kresge Co., New York city, has purchased property in Clarksburg, W. Va., for the erection of two store and office buildings to cost \$500,000.

EXCERPTS FROM THE THIRTY-FOURTH ANNUAL REPORT OF SOUTHERN RAILWAY COMPANY Year Ended December 31, 1927

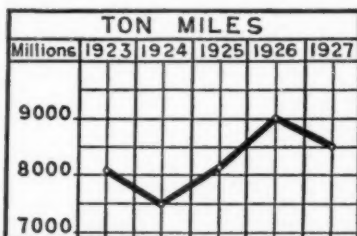
RICHMOND, VA., March 13, 1928.

TO THE STOCKHOLDERS OF SOUTHERN RAILWAY COMPANY:

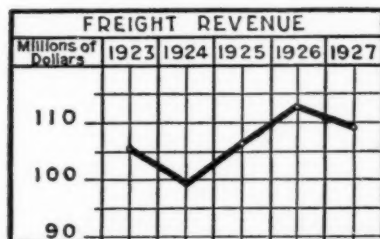
The Board of Directors submits the following report of the affairs of the Company for the year ended December 31, 1927:

A Normal Year for Freight Traffic.

The volume of freight handled last year was below the record volume of 1926, although larger than for any other previous year. Measured in ton-miles (tons multiplied by distance) there was a decrease of 5.99% compared with 1926, but an increase of 6.11% over the average of the three years 1923-4-5. Shipments of many important commodities were smaller in 1927 than in 1926, including lumber, coal, iron, steel, automobiles, fertilizer, grain, peaches, apples and watermelons, although of some commodities larger shipments were handled, including cotton, live stock, citrus fruits and petroleum products.

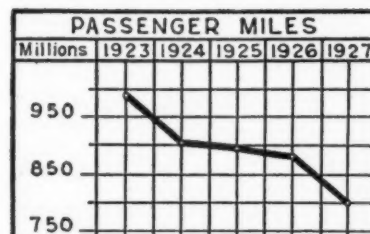
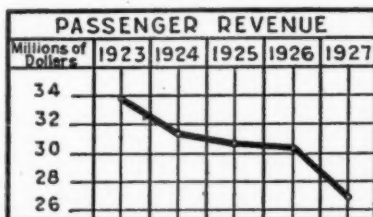


The dollar revenue from freight traffic declined 3.05% compared with 1926, but was 5.11% above the average of the three years 1923-4-5.



The Significant Tendency of Passenger Traffic.

The volume of passenger traffic, as well as the revenue from that source, continued the decline which has been characteristic of that feature of the railroad business for the past several years. This decline on the Southern was partly arrested in the years 1925 and 1926 by reason of the high tide of through travel to and from Florida during the greater part of those two years, but with the recession of that tide in the latter part of 1926 the full effect of the loss of local passenger business on the aggregate passenger revenue again became apparent. During the past year this revenue was \$26,749,397, the lowest for any year since 1917, when the figure was \$24,303,182. The number of passengers carried in 1927, viz: 8,093,490, compares with 9,208,549 in 1926 and with an annual average of 17,810,803 in the three years 1915-6-7. Thus it will be seen that the number of passengers on our trains has been reduced one-half in ten years. But by reason of the fact that the long distance business has improved while the local business has been declining, the comparison of the passenger revenue unit

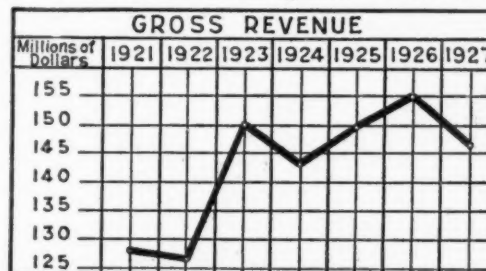


(passenger miles, i. e., number of passengers multiplied by average journey) makes a more favorable comparison. For 1927 the number of passenger miles was 788,884,193 compared with an annual average of 891,694,385 for the three years 1915-6-7. The

revenue per passenger train mile in 1927 (including mail, express and miscellaneous earnings, as well as passenger) makes a still better comparison with the earlier period by reason of increased passenger fares, effective in 1920, and such reduction in local passenger train mileage as could be effected. For 1927 this figure was \$2.24 compared with an average of \$1.50 for the three years 1915-6-7. The operating expense per passenger train mile (calculated by assigning to passenger train service the charges directly applicable thereto and dividing expenses common to both passenger and freight service according to the formulae of the Interstate Commerce Commission) in 1927 was \$1.88. This indicates a profit of 36c per passenger train mile, or a total profit of \$5,733,000 from passenger train business during 1927. The profit, similarly calculated, from passenger train operations for the average of the three years 1915-6-7 was 60c per passenger train mile or a total of \$9,779,000. These statistics negate the popular assumption that railroad passenger traffic has become unprofitable. They do show, however, that the net return from passenger business has declined about forty per cent. during the last ten years. In this situation it is interesting to note that the decrease of 11.96% in the Southern's passenger revenue in 1927 compared with 1926 was less severe than the decrease on other railroads in the Southern region, which averaged 17.52%.

Total Operating Revenue.

The total revenue derived from the operation of the railroad was \$147,639,062, a figure substantially below the record attainment of the preceding year, slightly less also than the annual revenues for 1925 and 1923, but larger than the yearly returns for the years 1924, 1922 and 1921.



A Successful Year in Expense Account Control.

With a decrease of \$7,828,913 in gross revenue, the expense account was so controlled that the comparative loss in net was limited to \$2,763,720. Thus the net loss was 35.3% of the

RATIO OF DECREASE IN NET OPERATING INCOME TO DECREASE IN GROSS OPERATING REVENUE 1927 COMPARED WITH 1926

Southern	35.3%
Other lines in United States	57.8%

loss in gross. This result was not obtained at the expense of the property. By

far the largest contribution was a cut of \$2,517,715 in the item of conducting transportation, compared with reductions of \$712,820 in maintenance of way and structures and of \$692,406 in maintenance of equipment. The appropriations out of the dollar of gross revenue, in the two years, for the several general heads of operating expenses were as follows:

	1927	1926
Transportation of the traffic.....	33.42c	33.36c
Maintaining roadbed and structures.....	13.77c	13.54c
Maintaining rolling stock.....	17.67c	17.22c
Traffic solicitation and supervision.....	2.06c	1.99c
General expenses.....	2.83c	2.60c
Operating dining cars and other incidental services63c	.67c
Totals	70.38c	69.38c

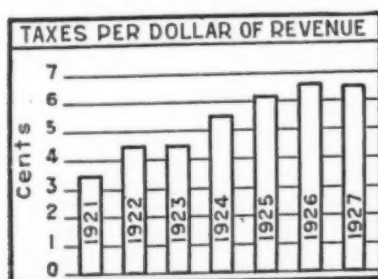
The transportation cost of 33.42c per dollar of revenue on the Southern in 1927 compares with an average transportation cost of 35.47c per dollar of revenue on the other railroads in the Southern region and with an average of 34.96c on all of the class one railroads of the United States.

The principal transportation expense units in 1927 compare favorably with those of 1926, especially when considered in the light of the reduced volume of traffic, *e. g.*:

e. g.: the average number of tons of freight per train increased 1.76%; the number of gross ton miles per freight train hour increased 8.80%; the wage cost of freight train crews per thousand gross ton miles decreased 4.13%; overtime wage payments in train and engine service decreased 28.43%; coal consumption per thousand gross ton miles decreased 4.19%; coal consumption per passenger car mile decreased 1.14%; total freight train transportation expense per thousand gross ton miles decreased 4.94%; the net charge against the Company for hire of equipment decreased 30%.

Taxes.

The tax bill for 1927 was \$9,454,004 compared with \$10,351,100 for 1926, a decrease of \$897,096, or 8.67%.



as the result of a smaller income.

Interest and Rental Charges.

The disbursement for interest on mortgage bonds and equipment trust obligations and rentals for leased railroads, *viz.*: \$17,528,732, was approximately the same as in 1926, when it was \$17,519,061.

Income From Investments.

Income from sources other than operation, including interest and dividends on corporate and Government securities owned, and interest on bank balances, was \$6,823,150, an increase of \$966,196, or 16%, over the like income in 1926.

Net Income.

The balance of income over fixed charges in 1927 was \$21,699,908, equivalent to \$14.40 per share on the common stock after providing for the dividend on the preferred stock, compared with \$23,596,722, equivalent, after pre-

ferred dividend, to \$15.87 per share earned on the present common stock capitalization in the preceding year.

Dividends.

The preferred dividend of five per cent. and a dividend of seven per cent on the common stock were paid in quarterly installments during the year, requiring \$11,907,405, an increase of \$507,405 over the preceding year, when the dividend rates were the same but the number of shares of common stock was smaller. On December 8, 1927, the dividend rate on the common stock was increased to eight per cent. with the declaration of a quarterly dividend of two per cent. payable on February 1, 1928.

Additions to the Property.

The movement of trains on all of the Company's fast passenger and high train density lines is now protected and expedited by automatic train control devices as well as by electric block signals. This became an accomplished fact with the completion during the year of such installations between Bristol and Memphis, between Charlotte and Columbia, and between Asheville and Spartanburg.

Modern engine terminal facilities were built at Andrews Yard (Columbia), Winston-Salem and Jacksonville, replacing inadequate facilities.

The yards at Columbia, Winston-Salem, Greensboro and Durham were enlarged.

Concrete and steel coal chutes, with cost reducing coal handling machinery, were constructed at Monroe, Va.; Atlanta Junction, Ga.; Anniston, Ala.; Sheffield, Ala.; Coster, Tenn.; Bulls Gap, Tenn., and Lawrenceburg, Ky.

To increase the water supply and reduce the pumping cost, improved water facilities were provided at a number of points, including water softening apparatus in some of the limestone regions.

Telephone train dispatching and message circuits were installed between Greensboro and Winston-Salem, between Bristol and Knoxville, and between Chattanooga and Memphis, a total of 489 miles.

A new freight depot to serve both Asheville and Biltmore was erected on a favorable site near Biltmore. Extensions to freight depot facilities were made at Charlotte, N. C.; Rock Hill, S. C.; Hendersonville, N. C., and at a number of smaller stations.

The structures on the line between Greensboro and Selma, N. C., a distance of 109 miles, were strengthened to permit the use of heavier power.

A total of 260 miles of new 100-lb. rail was laid during the year, replacing 85-lb. rail.

Forty-three new locomotives, 5,450 new freight cars and 25 new passenger train cars have been contracted for. The cost of this equipment was \$12,312,950, which will be paid partly from current treasury funds and the remainder from the proceeds of sale of \$9,840,000 Series "BB" 4% equipment trust certificates, dated March 1, 1928, payable in thirty equal semi-annual installments.

Industrial and Agricultural Development.

Diversified industrial expansion continues throughout the South. During the past year two hundred and eighty-two new manufacturing industries were established on the lines of Southern Railway System and two hundred and sixty-four additional plants were enlarged.

The year witnessed substantial additions to the iron producing furnace and foundry capacity of the South. Worthy of special mention also are the construction at Atlanta of a great automobile assembling plant and additions to several of the large tobacco factories in North Carolina.

In Southern cotton mills 502,210 new spindles were installed during the past year, bringing the total number to 18,299,832. These spindles spun 73% of the total amount of cotton used in the mills of the United States.

The South now has three large plants engaged in the manufacture of artificial silk or rayon. Two of these are being enlarged and three new plants are being constructed and should commence operation during 1928.

It may fairly be said that the South is now predominant in the manufacture of furniture, tobacco and fertilizer materials, as well as cotton.

Aside from somewhat reduced crops of fruits and vegetables, as a result of unfavorable weather, agricultural conditions in the South continue to show improvement. A new interest in animal husbandry, stimulated by the location in the South of a number of establishments engaged in the making of butter, cheese and condensed milk, has brought

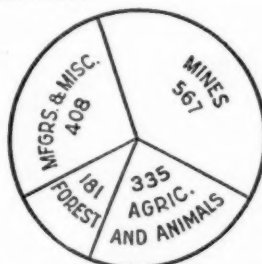
about a substantial increase in the number of dairy and food animals on Southern farms, the number having increased by more than 1,300,000 head during the past year.

A comparison of the Southern's freight traffic last year with



TONS PER MILE OF ROAD—1927

that of its first year of operation affords interesting evidence of the South's growth along all lines, as well as a gratifying trend toward a better balance between the activities of farm and factory. That the outstanding growth has been in the movement of raw materials from mine and forest to factory and of the factory's finished product to market is graphically shown by the accompanying charts.



TONS PER MILE OF ROAD—1895

Expressed in percentages the increases in 1927 over 1895 are:

Products of Agriculture and Animals.....	116%
Products of Forests	534%
Products of Mines	433%
Manufacturers and Miscellaneous.....	385%

These figures illustrate the following official statement quoted from the recently published "Commercial Survey of the Southeast," issued by the Department of Commerce of the United States Government:

"That the Southeast offers opportunity for manufacture and allied commercial activities is unquestioned. As a market its importance has hardly been realized either by the Nation or by its own people, but the field is promising and growing. As a region endowed with extremely favorable topography, climate, natural resources, raw materials and labor, it should continue to experience an expanding industrialization. In this change cotton, agriculture and lumbering, although still remaining dominant economic factors, are no longer the only favored activities of commercial and financial groups. The diversified business resulting from a better balance between extractive activities and manufacturing is tending to put all phases of production on a more sound and stable basis."

The attention of the stockholders is invited to two statements which follow this narrative. In the preparation of these statements an effort has been made to array, in condensed tabular form and without the use of technical terms, the statistics concerning the financial results of the year's business and the financial condition of the Company at the end of the year.

To all officers and employees who have faithfully and efficiently performed their duties during the past year the thanks of the Board of Directors again are tendered.

Respectfully submitted, by order of the Board,

FAIRFAX HARRISON,
President.

FINANCIAL RESULTS FOR THE YEAR.

	1927	1926
The Company received from freight, passenger and other miscellaneous operations a total revenue of.....	\$141,639,062	\$155,467,975
The cost of maintaining the property and of operating the railroad was.....	103,907,953	107,866,588
Leaving a balance from railroad operations of	\$43,731,109	\$47,601,387
Federal, State and local taxes (plus a small amount of uncollectible items) required	9,488,877	10,394,891
Leaving a balance of.....	\$34,242,232	\$37,206,496
The Company paid to other companies hire of equipment and use of joint facilities in excess of the amount received by it from those sources.....	1,477,170	1,677,713
This leaves an income from railway operations of	\$32,765,062	\$35,528,783
Other income derived from investments in stocks and bonds of affiliated companies and miscellaneous items was.....	6,823,150	5,856,954
Making a total income of.....	\$39,588,212	\$41,385,737
Interest on funded debt and equipment obligations, rents paid for leased railroads, and other miscellaneous deductions totalled	17,888,304	17,789,015
There then remained a balance available for dividends, working capital and other corporate purposes of.....	\$21,699,908	\$23,596,722
The regular dividends on the 5% Preferred stock were.....	3,000,000	3,000,000
This left a balance of.....	\$18,699,908	\$20,596,722
The earnings per share of common stock on basis of the 1,298,200 shares now outstanding were equivalent to.....	\$14.40	\$15.87

FINANCIAL POSITION AT THE END OF THE YEAR.

	December 31, 1927	December 31, 1926	Increase or Decrease
The Company has investments in land, railroad tracks, terminal facilities, shops, locomotives, freight and passenger cars and other fixed property of	\$531,471,776	\$522,868,716	\$8,603,060
Cash derived from subscriptions to additional common stock set aside as a construction fund	2,804,804	9,088,980	(d) 6,284,176
In addition the Company had investments in stocks, bonds and notes of affiliated companies carried at	68,644,318	66,691,303	1,953,015
Total Investments	\$602,920,898	\$598,648,999	\$4,271,899
Cash and investments in U. S. Government securities	\$44,452,830	\$40,915,827	\$3,537,003
Other railroad companies and others owed the Company	7,638,959	8,377,874	(d) 738,915
The Company had on hand fuel, rails, ties, bridge material and other supplies necessary for keeping road and equipment in good repair.....	10,768,775	11,649,347	(d) 880,572
Insurance Fund Reserve, other deferred assets and unadjusted debits, including items owed but not yet available to the Company	6,537,232	6,548,870	(d) 11,638
The assets of the Company totalled	\$672,318,694	\$666,140,917	\$6,177,777
The Company owed for materials, supplies, wages and balances to other railroad companies, and interest and rents accrued but not yet due.....	\$21,722,962	\$24,390,956	(d) \$2,667,994
Taxes accrued but not due.....	4,160,334	4,621,015	(d) 460,681
Operating and insurance reserves	4,061,791	4,409,171	(d) 347,380
Reserve for depreciation of equipment	31,914,428	29,553,188	2,361,240
Reserve for dividends on preferred and common stocks	5,596,400	5,100,000	496,400
Deferred liabilities, including items due to others not yet adjusted.....	7,794,866	7,662,247	132,619
The total of these liabilities, credits and reserves was	\$75,250,781	\$75,736,577	(d) \$485,796
After deducting these items from the total assets there remained net assets available for the capitalization of the Company of.....	\$597,067,913	\$590,404,340	\$6,663,573
The capitalization of the Company consisted of the following:			
Funded Debt, including bonds and equipment trust obligations	\$298,304,935	\$301,427,262	(d) \$3,122,327
Preferred Stock, par value	60,000,000	60,000,000	
Common Stock, par value	129,818,560	129,138,300	680,260
Making a total capitalization of	\$488,123,495	\$490,565,562	(d) \$2,442,067
After deducting this capitalization from net assets there remained a surplus of	\$108,944,418	\$99,838,778	\$9,105,640
(This surplus has, in a large measure, been reinvested in the property.)			

FINANCIAL NEWS

Bond Issues Proposed

Ala., Birmingham—Public Improvement—City Comm., reported, receives bids Apr. 17 for \$350,000 to \$400,000 bonds.

Ala., Dothan—City, reported, voted \$130,000 bonds.

Ala., Fairfield—School—G. C. Culpepper, City Clk., reported, receives bids about May 1 for \$150,000 5% \$1000 denom. bonds. 3-22

Ala., Mobile—Road—Mobile County, reported, plans voting Apr. 19 on \$5,000,000 bonds; J. B. Converse, County Engr. 2-23

Ala., Montgomery—Public Improvement—State of Alabama, Bibb Graves, Governor, reported, receives bids Apr. 11 for \$5,000,000, not to exceed 4% bonds.

Ark., Brinkley—Paving—City, reported, considering bond issue.

Ark., Caraway—School—Town, reported, votes Apr. 17 on bonds.

Ark., Fayetteville—Allan M. Wilson, Mayor, reported, considering \$100,000 5% bond election for city hall and airport.

Ark., Mena—Indebtedness—Polk County, Mark P. Olney, Judge, reported, plans \$10,000 bond issue.

Fla., Apalachicola—City, Fred Sawyer, voted \$100,000 paving and sidewalk and \$20,000 water bonds. 3-15

Fla., Bartow—School—Polk County Bd. of Public Instruction, reported, receives bids Apr. 13 for \$25,000, 6%, \$1,000 denom. bonds.

Fla., Clermont—Carl Kindred, City Clk., receives bids Apr. 2 for \$30,000 6% \$1000 denom. funding bonds.

Fla., Lecanto—School—Lecanto School Dist., reported, voted \$42,000 bonds.

Fla., Gainesville—Bd. of Public Instruction, reported, receives bids Apr. 2 for \$38,000 High Springs School Dist. bonds.

Fla., Sanford—Seminole County Bd. of Public Instruction, reported, received high bid from John Nuveen & Co., 38 S. Dearborn St., Chicago, Ill., \$20,970, or 104.85 and accrued interest, for \$20,000 6% \$1000 denom. Lake Monroe Special Tax School Dist. 6 bonds. 3-8

Fla., Stuart—Highway—J. R. Pomeroy, Clk., Martin County Commrs., reported, receives bids Apr. 3 for \$325,000, 6%, \$1,000 denom. bonds.

Fla., Stuart—Refunding—City Comm., reported, plans \$83,000, \$1,000 denom. bond issue.

Fla., West Palm Beach—Bridge—Palm Beach County Commrs., reported, receive bids Apr. 18 for \$129,000 bonds.

Ga., Cairo—School—Cairo Bd. of Trustees, reported, called \$40,000 bond election on Apr. 17.

Ga., Homerville—School—City, reported, voted \$50,000 bonds. 3-1

Ga., Tallapoosa—School—City, reported, considering \$100,000 bond issue.

Ky., Paducah—Electric Light Plant—City, Ernest Lackey, Mayor, plans voting Nov. 20 on bonds.

Ky., Richmond—Sewage Disposal—City Clk., reported, receives bids Apr. 5 for \$60,000 not to exceed 4% bonds.

La., Clinton—Water—City, reported, plans \$40,000 bond election.

La., Collinston—Water—City, Guy M. Boyd, Mayor, voted \$26,000 bonds. 3-1

La., DeRidder—Bridge, Road—D. W. McFatter, Sec. Treas., Beauregard Parish Police Jury, reported, receives bids Apr. 10 for \$35,000 6% \$500 denom. Road Dist. 6 bonds.

La., Lafayette—Lafayette Parish School Dist., reported, votes Apr. 25 on \$1,000,000 bonds. 3-15

La., St. Francisville—J. R. Matthews, Sec. West Feliciana Parish Police Jury, reported, receives bids Apr. 11 for \$55,000 6% \$500 denom. Road Dist. 4 bonds.

Md., Hagerstown—Electric Light—City, reported, receives bids Apr. 2 for \$300,000 4% \$1000 denom. bonds.

Miss., Biloxi—School, etc.—City, reported, votes Apr. 14 on \$100,000 bonds.

Miss., Calhoun City—Water—City, reported, voted \$25,000 bonds. 3-1

Miss., Decatur—Decatur School Dist., reported, voted \$50,000 bonds.

Miss., Georgetown—School—Georgetown School Dist., reported, votes Apr. 7 on \$30,000 bonds.

Miss., Gulfport—Bridge—Harrison County, Beat 1, reported, voted \$275,000 bonds. 2-23

Miss., Jackson—A \$60,000,000 State road bond bill introduced in Senate to pave 2600 ml. hard surface highways in 6 years.

Miss., Long Beach—School—City, reported, votes Mar. 31 on \$30,000 bonds.

Miss., Philadelphia—Courthouse—Neshoba County Bd. of Suprs., R. G. Moore, Clk., reported, plans \$85,000 not to exceed 6% bond or note issue.

Miss., Pineville—Pineville School Dist., reported, voted \$30,000 bonds.

Miss., Thornton—School—Thornton Dist., reported, plans \$12,000 bond election.

Miss., Waynesboro—Waynesboro Separate School Dist. votes Apr. 3 on \$40,000 bonds.

Mo., Cassville—City Hall, Community Building—City, reported, votes in Apr. on \$18,000 bonds.

Mo., Ferguson, Ind. Branch, St. Louis—City, reported, votes Apr. 3 on \$25,000 bonds.

Mo., Independence—Jackson County, reported, votes \$12,500,000 bonds, including \$6,500,000, roads; \$5,000,000, courthouses. 3-1

Mo., Moberly—Improvement—City, G. F. Rothwell, Clk., reported, plans voting on bonds: \$10,000, bathing beach and playgrounds; \$7000, white way; \$6000, trunk sewer; \$7000, traffic signals; \$150,000, city hall; \$10,000, memorial pavilion.

Mo., Rockport—Water—City, reported, voted \$30,000 bonds. 3-15

N. C., Charlotte—Courthouse, Jail, Anticipation—Mecklenburg County Commrs., R. N. Hood, Chmn., receive bids Apr. 3 for \$1,200,000 \$10,000 denom. notes.

N. C., Charlotte—Street—City Commrs., reported, considering \$936,000 bond issue.

N. C., Hayesville—Water, Sewer—R. E. Crawford, Mayor, receives bids Apr. 5 for \$25,000 \$1000 denom. not to exceed 6% bonds. 2-2

N. C., Kinston—Lenoir County Commrs., reported, plan receiving bids in 6 weeks for \$130,000 to \$150,000 funding and obligation bonds.

N. C., Louisburg—Franklin County Commrs., reported, receive bids Apr. 2 for \$64,000 school and \$60,000 funding bonds.

S. C., Marion—Bd. of Trustees receives bids Mar. 30 for \$20,000 5% Marion County School Dist. 20 bonds.

Okla., Chickasha—City, reported, votes Apr. 3 on \$75,000 storm sewer, and \$20,000 fire equipment bonds.

Okla., Guthrie—Road—Logan County, reported, votes soon on \$400,000 bonds.

Okla., Lamont—Sewer—City, reported, considering \$32,000 bond issue.

Okla., Muskogee—School—City, reported, voted \$50,000 bonds. 3-15

Okla., Oklahoma City—Paving—City, E. M. Fry, Mgr., reported, plans bond issue.

S. C., Greenville—Greenville County, School Dist. No. 7-H, reported, votes Apr. 3 on \$10,500 bonds; I. P. Kellett, Chmn.

S. C., Greer—Sewer, Water—City, reported, voted \$110,000 bonds.

Tenn., Bristol—Paving—City Comm., reported, receives bids Apr. 3 for \$34,500 bonds.

Tenn., Jackson—School—City, reported, plans voting Apr. 26 on \$285,000 bonds.

Tenn., Knoxville—Paving—City, Mgr. Roehl, reported, considering \$750,200 bond issue.

Tenn., Nashville—State, Henry H. Horton, Governor, reported, plans selling \$2,000,000 bonds to purchase tract in Great Smoky Mountains for national park.

Tex., Albany—Road—Shackelford County, reported, votes latter part of Apr. on \$300,000 bonds.

Tex., Austin—Improvement—P. W. McFadden, Mayor, reported, considering \$4,250,000 bond election May 19: \$23,500, resurface paved streets; \$1,876,500, streets, bridges, storm sewers; \$700,000, playgrounds, parks; \$550,000, sanitary sewers; \$250,000 fire dept. stations; \$300,000, schools and grounds; \$75,000, abattoir; \$50,000, hospital improvements; \$75,000, municipal airport; \$510,000, library; \$100,000, market. 3-8

Tex., Beaumont—Tuberculosis Hospital—Jefferson County Commrs. may call \$75,000 bond election.

Tex., Bonham—School—City, reported, plans \$50,000 bond election.

Tex., Brady—Road—McCulloch County, reported, considering \$1,985,000 bond issue.

Tex., Brownwood—Brownwood Ind. School Dist., voted \$50,000 bonds. 3-3

Tex., Collinsville—Water—City, reported, voted \$30,000 bonds. 3-8

Tex., Corpus Christi—Improvement—City Council, reported, call \$425,000 bond election soon for municipal aviation field, widen Leopard St., pave Water St. and \$75,000 bayfront improvement.

Tex., Corsicana—Warren Hicks, Navarro County Judge, reported, receives bids Apr. 23 for \$30,000 5% Rice Road Dist. 12 bonds.

Tex., Crystal City—City, reported, votes Apr. 14 on \$65,000 street improvement and \$85,000 indebtedness bonds.

Tex., Cuero—School—City, reported, votes Apr. 7 on \$125,000 bonds. 3-22

Tex., Dallas—School—Dallas County, Bluff View and Love Field Common School Dist., reported, plan bond issue.

Tex., Dallas—Road, Bridge, Viaduct—Dallas County, Chas. E. Gross, Auditor, votes Apr. 3 on \$6,950,000 4% bonds. 3-15

Tex., Freeport—City, reported, voted \$80,000 street and \$70,000 sewer bonds. 3-8

Tex., Galveston—Road, Bridge—Galveston County Commrs., reported, plan selling \$196,000 bonds.

Tex., Hebbronville—School—City, reported, plans \$40,000 bond issue soon.

Tex., Junction—Water—City, reported, voted \$55,000 bonds. 3-15

Tex., Karnes City—Road—Karnes County, D. O. Klingeman, Judge, receives bids Apr. 9 for \$475,000 5% \$1000 and \$500 denom. bonds for Road Dist. No. 1, 3, 4 and 7. 3-22

Tex., Kerrville—Road—Kerr County, reported, considering bond election.

Tex., Lefors—Road—Gray County, Road Dist. 2, reported, votes Apr. 5 on \$175,000 bonds; T. M. Wolfe, Judge.

Tex., Mount Vernon—School—City, reported, voted \$50,000 bonds. 3-22

Tex., Nederland—Nederland Independent School Dist., reported, voted \$75,000 bonds. 3-15

Tex., Orange—Paving—City, reported, considering \$33,000 bond election.

Tex., Paducah—Road—Cottle County, J. M. Whatley, Judge, reported, receives bids Apr. 3 for \$100,000 Series C bonds.

Tex., Port Neches—Water, Sewer—City, reported, plans voting soon on \$100,000 bonds.

Tex., Raymondville—Road—Willacy County Rd. Dist. 3, reported, votes Apr. 14 on \$500,000 bonds.

Tex., Rio Hondo—Paving—City voted \$12,000 bonds.

Tex., Rotan—Sewer—City, reported, plans \$30,000 bond issue.

Tex., Trinity—School—City, reported, votes Apr. 18 on \$80,000 bonds.

Tex., Uvalde—Street—City, reported, votes April 17 on \$47,500 5% bonds.

Tex., Vernon—City, reported, voted \$410,000 bonds: \$250,000, school; \$100,000, city hall; \$60,000, sewer and water. 3-1

Tex., Weslaco—Improvement—City voted \$160,000 bonds: \$90,000, street; \$40,000, water; \$30,000, sewer. 2-23

Tex., Yoakum—City Commrs., reported, authorized \$80,000 bond issue.

Tex., Yoakum—Street—City plans selling \$80,000 bonds in near future.

Va., Norfolk—Garage, etc.—I. Walke Truxton, City Mgr., reported, plans \$75,000 bond issue.

Va., Purcellville—Water—Town, A. N. Adams, Mayor, voted \$60,000 bonds. 3-8

W. Va., Romney—Water—Town, reported, voted \$50,000, 5% bonds. 10-27-27

W. Va., Star City—Sewer—City, Harry E. Jasper, Recorder, reported, voted \$40,000 bonds; will sell bonds about May 15. 2-23

Bond Issues Sold

Fla., Inverness—School—Citrus County Bd. of Public Instruction, reported, sold \$32,000 6% \$1000 denom. Homosassa School Dist. bonds to Hanchett Bond Co., Inc., Chicago, Ill., and G. B. Sawyers Co., Jacksonville, Fla., 97 and accrued interest. 3-1

Ga., Columbus—Paving—Muscogee County Commrs., reported, sold \$23,000 bonds to First Natl. Bank, par. 3-1

(Continued on page 108)



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San Antonio, Texas

The Financing of Sound First Mortgage Projects

IF YOU propose to build or refinance income producing property in a city of 35,000 population or more, we are interested in underwriting your first mortgage loans on such property in amounts from \$50,000 upwards.

Our complete financing facilities have been utilized by many of the most successful builders and owners in the South, Southwest and West in the financing of their projects, of which the Milam Building, shown above, is typical.

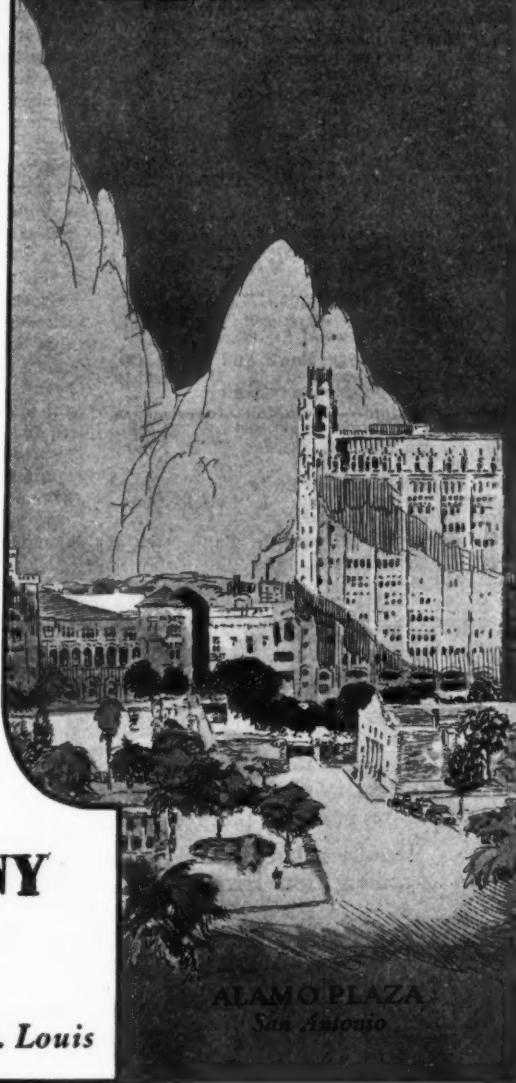
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ALAMO PLAZA
San Antonio

FINANCIAL NEWS

(Continued from page 106)

Ky., Catlettsburg—Road—J. S. Secrest, Boyd County Clk., reported, sold \$125,000, 4½% bonds to Ashland Natl. Co., Ashland, \$62.50 premium. 3-15

Miss., West Point—School—T. B. Miller, City Clk., reported, sold \$150,000 4½% bonds to W. L. Slayton & Co., Toledo, Ohio, \$1110 premium. 3-6

Mo., Sedalia—Road—Pettis County, reported, sold \$60,000 Hughesville Township bonds to Fidelity Guaranty Co., Kansas City, par, accrued interest, \$783 premium. 3-8

N. C., Asheville—Buncombe County Bd. of Education, reported, sold \$60,000 5% Oak Hill-Jupiter Special Taxing School Dist. bonds to Braun, Bosworth & Co., Toledo, Ohio, \$60,858. 3-8

N. C., Kenansville—School Funding—Lawrence Southerland, Clk., Duplin County Comms., reported, sold \$100,000 4½% bonds to Second Ward Securities Co., Milwaukee, Wis., \$1140 premium. 3-8

Tenn., Chattanooga—Highway—Will Cummings, Hamilton County Judge, reported, sold \$500,000, 4½%, \$1,000 denom. bonds to Guaranty Co., N. Y., premium \$29,149. 3-15

Tex., Collinsville—Water—City, reported, sold \$30,000 6% bonds to Roger H. Evans Co., Dallas, \$1055 premium. 3-8

Tex., Huntsville—Walker County Comms., reported, sold \$100,000 5% Series K special road bonds to H. C. Burt & Co., Houston, par, accrued interest, \$6,666 premium. 3-8

Tex., Mart—J. C. Rogers, Pres. School Bd., reported, sold \$100,000 5% bonds to First National Bank, \$5111 premium. 2-23

Tex., Weslaco—A. S. Pike, Sec., Weslaco Independent School Dist., reported, sold \$120,000 5% \$1000 denom. bonds to W. K. Terry & Co., Toledo, Ohio, par, accrued interest, \$6505 premium. 3-15

Va., Martinsville—Water Refunding—A. S. Gravely, Town Clk., reported, sold \$30,000 4½% bonds to Piedmont Trust Bank, Martinsville, \$30,051 and accrued interest. 3-15

New Financial Corporations

Fla., Jacksonville—Miramar Investment Co., capital \$300,000, chartered; C. D. Rinehart, Dyal-Upchurch Bldg.

Ky., Louisville—United States Bond and Mortgage Corp., capital \$1,000,000, organized; John J. Davis, Pres., Inter-Southern Bldg.; Richard R. Williams, V.-P.; Hugh B. Fleece, Sec.-Treas.

La., Alexandria—Fidelity Securities Co., Inc., capital \$25,000, chartered; Leo J. Phillips, Pres., 1712 Creswell St., Shreveport.

La., Bogalusa—City Bank and Trust Co., capital \$50,000, chartered; J. H. Cassidy, Pres.; W. M. Bobbington, Cashier.

La., Covington—Covington Investments, Inc., capital \$125,000, chartered; W. E. Rau, Pres.; M. P. Planché, Treas.; C. E. Schonberg, Sec.

La., Kaplan—Kaplan State Bank, capital \$40,000, chartered; Dan J. Feitel, V.-P.; Arthur LeJeune, Cashier.

Md., Kingsville—Kingsville Bank, capital

\$25,000, incorporated; Frank G. Shepperd, Warren A. Blake, Frank M. Gorsuch.

Okla., Sallisaw—Sallisaw State Bank, \$25,000 capital, chartered; I. H. Nakdimen, Pres., 1109 N. 12th St.; W. L. Curtis, V.-P., both Fort Smith, Ark.

Okla., Sparks—Farmers and Merchants Bank reorganized; D. W. Collier, Pres.; C. W. Collier, Cashier. 3-22

Tex., McAllen—First National Bank of McAllen, capital \$60,000, reorganized; J. A. Frisby, Pres.; F. W. Lemburg, V.-P.; B. R. Smith, Cashier.

Tex., Temple—Home Service Finance Co., capital \$500,000, chartered; Angus H. McEwean, Oscar L. Vaden.

National Finance Co., Charleston, S. C., J. E. Long, Pres., Bd. of Directors, reported, plans increasing capital, \$100,000 to \$150,000.

Central Bank and Trust Co., Asheville, N. C., C. W. Brown, Chmn. of Bd.; Wallace B. Davis, Pres.; C. A. Taylor, Cashier, reported, plans increasing capital, \$500,000 to \$1,000,000.

Citizens Natl. Bank, W. M. Wright, Pres., and Farmers' Natl. Bank, B. L. Harris, Pres., Dublin, Tex., reported, consolidated.

Model Building & Loan Assn., Newport, Ky., reported, plans increasing capital, \$1,500,000 to \$2,000,000.

Lincoln Building & Loan Assn., Louisville, Ky., reported, plans increasing capital \$5,000,000 to \$6,000,000.

American Prosperity, Its Causes and Consequences. By Paul M. Mazur. New York: The Viking Press. Pp. 268.

In an analytical work of such thought and interest one may well turn first to the writer's conclusions, and afterward turn back to the facts and theories which he establishes as his premises. At the core of Mr. Mazur's optimistic conclusions is the following engaging view: "But America is not dollar-mad in the miser's manner. It is activity-mad. It likes the game of business, and it keeps the score in dollars. Its successful players win, and then risk their all once more to win again. To a considerable degree they play the game of business for the sake of play and they measure their effort—like any other sportsman—by their success." Mr. Mazur entertains no fear for the future of American business and feels that American industrial life "will continue to write the most significant pages of America's history." The premises for this conclusion Mr. Mazur finds and discusses with profound ability, yet in interesting rather than pedagogic manner, under various heads of Evolution—evolution of production, of distribution, of retailing, of the consumer; he discusses the effect of the war

and "the puzzle of American prosperity," together with foreign relations. All these chapters, and more, of remarkable information and intelligence contribute to the making of a volume of real value.

Foreign

Swedish Merchant Seeks Connections.

C. R. Weijmers of Weijmers, Helsingegatan 8, Stockholm, Sweden, in a letter to the Manufacturers Record says that his firm would like to get into connection with manufacturers in the household branch for import of small, cheap and practical articles.

Utilities Made of Brass or Iron.

Sri Krishna Motor & Cycle Engineering Works, 109 China Bazaar Road, Madras, India.—Would like to hear of any firm who may undertake to supply articles made of brass, iron, etc., samples of which will be sent. They are also interested in handling any kind of goods as either agents or sole agents for India.

Ceylon Concern Seeks Business.

Thoufeek & Co., general importers, exporters and commission agents, 251 Richmond Hill street, Galle, Ceylon, write that they would like to have samples and catalogues of such goods as iron and brass nails, screw and simple; carbide, iron rods, barbed wire, galvanized sheets, glassware, earthenware, varnish cloths, cement, paint, crockery, piece goods, acetate acid lead, and so on. The firm says it will pay for samples.

General Merchandise Wanted.

J. T. Harper, 30 First St., Albert Town, Georgetown, Demerara.—Wants for wholesale business all kinds of drygoods, prints, drills, silk ties, shirts, balbriggans, singlets, ladies' vests, overalls, working shirts and pants, toilets, hardware, jewels, sole leather, boots and shoes, the latter of black vic kid, light brown and dark brown vic kid, patent leather, calf, etc., with rubber heels. Also optical goods, enamel ware, foodstuffs of all kinds, umbrellas, shoe findings, watches, stationery, toys, gramophone records, cutlery, tools, etc., suitable for diamond fields work. Many other articles are also handled.

The South's Business

Our experience and success warrant our wanting to identify this bank further with the business and progress of the South.

Inquiries about our service will be treated as coming from friends.

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GWYNN CROWTHER, President

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THE GENERAL MORTGAGE SECURITIES CORPORATION
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The NATION AWAKES TO the advantages of the INDUSTRIAL SOUTH

Never in the history of the South has its material expansion been of such magnitude, so rapid and of such a diversified character as it is today. The business people of all sections are realizing that with its marvelous resources the South is destined to be one of the greatest industrial centers of the world. The trend of industry is pronouncedly toward the South, not only in textile manufacturing but in other lines.

Money is being poured into the South by the greatest capitalists and business organizations in America. Hydro-electric developments on an enormous scale are going forward all over the South, and the expansion of steam-electric stations is equally as great. Over half of the increase in installed capacity of water power plants of the country during the last two years is in the South. In the South electric power is being generated by powdered coal, lignite and oil at a cost which is bringing about a great industrial development in Louisiana, Texas and other Southwestern States.

Every business man and woman in America is vitally interested in studying this situation. The great natural asset of the nation—the South—is now being developed on a scale which will match, if not surpass, the most active development ever heretofore seen in the United States, and that means the world.

The story of the South's resources, progress and possibilities will be brought down to date in the descriptive and statistical presentation in the

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Astute investors know that accuracy of earnings depends partially upon accuracy of property charges to capital, expense, depreciation and maintenance. Prudent executives make sure of such accuracy by relying upon the facts supplied by American Appraisal Service.

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A N A T I O N A L O R G A N I Z A T I O N

A MAP

that has been 98 years in the making



SOUTHERN

RAILWAY SYSTEM



THE SOUTHERN SERVES THE SOUTH

THE first American-built locomotive to enter actual service hauled its first passenger train on what is now a part of the Southern Railway System.

In the years that have followed, one of the world's great railroad systems has been developed in the South, serving that territory east of the Mississippi and south of the Ohio and Potomac as perhaps no other section of equal extent is served by any one railroad system.

FROM THE NORTHERN GATEWAYS AT WASHINGTON, CINCINNATI AND LOUISVILLE . . . FROM THE WESTERN GATEWAYS AT ST. LOUIS AND MEMPHIS . . . TO THE OCEAN PORTS OF NORFOLK, CHARLESTON, SAVANNAH, BRUNSWICK AND JACKSONVILLE . . . AND THE GULF PORTS OF MOBILE AND NEW ORLEANS . . . THE SOUTHERN SERVES THE SOUTH.

Record Sulphur Output in 1927—South Produces Practically Total Supply.

The production of sulphur in this country in 1927 amounted to 2,111,618 long tons, compared with 1,890,027 tons in 1926, an increase of 12 per cent, and was the largest production ever recorded, according to the United States Bureau of Mines. Shipments in 1927 were practically the same as the record-breaking shipments of 1926, being 2,072,109 tons, valued at approximately \$38,300,000, compared with 2,072,657 tons, valued at approximately \$37,300,000, in 1926.

Stocks on hand at the mines were increased approximately 40,000 tons in 1927 and totaled 2,100,000 tons at the end of the year. This is the first year since the closing down of the Sulphur mine, Louisiana, in 1924 that the production of sulphur has been equal to or larger than the shipments. Over 99.9 per cent of the production was made by two companies in Texas, while over 99.9 per cent of the shipments was made by these companies and the company in Louisiana which is still shipping from stocks. Production and shipments of sulphur were also made by two other mines, one in Nevada and one in Utah.

Exports of sulphur or brimstone from the United States totaled 789,371 long tons in 1927, valued at \$16,269,254, of which 175,602 tons were exported to Germany, 165,141 tons to Canada, 126,664 tons to France, 114,597 tons to Australia, 50,775 tons to Netherlands, 36,450 tons to the United Kingdom and 25,978 tons to New Zealand. Exports of sulphur or brimstone in 1926 amounted to 576,966 tons. The exports in 1927 were the highest ever recorded and exceeded by nearly 160,000 tons the previous record exports of 1925. Exports of refined, sublimed and flowers of sulphur increased 150 per cent, from 12,002,105 pounds, valued at \$236,146 in 1926, to 30,266,810 pounds, valued at \$529,346, in 1927 and were mainly to Canada, Germany, United Kingdom and Australia. Imports of "sulphur and sulphur ore" for 1927 amounted to 3384 long tons.

Completing 70,000,000-Kilowatt Plant Addition.

Sterlington, La.—Construction of the 70,000,000-kilowatt addition to the plant here of the Louisiana Power and Light Company is nearing completion and practically all equipment has been delivered. The work was started about May 1, 1927, and has progressed since then with a force of from 250 to 300 men. To house the machinery a building 210 by 130 feet, 65 feet high, was erected, with a basement varying in depth from 20 to 60 feet. A 50-foot concrete stack has been erected by the Heine Chimney Company, Chicago, the stack resting on a steel framework supported by a reinforced concrete foundation slab 48 feet in diameter and 20 feet high. Turbine No. 3 has been installed and No. 4 will soon be erected, while a Worthington condenser to serve the former has been completed.

Three 1500-horsepower boilers, to operate at a pressure of 375 pounds, with 250 degrees of superheat, are being furnished by the Heine Boiler Company, St. Louis. A 50-foot tunnel from the screen pit to the river will supply 100,000,000 gallons of water daily, to be handled by four motor-driven pumps, each having a capacity of 25,000 gallons per minute. Original plans called for the completion of the addition by July 1, 1928, but it is expected to be in full operation by May 1. The work is under the supervision of Ford, Bacon & Davis, Inc., of New York.

\$325,000 Virginia War Memorial Planned.

Preliminary plans have been prepared by Cram & Ferguson of Boston, Mass., for a carillon at Richmond, Va., to be erected by the State as a war memorial. An appropriation will be available in 90 days, after which plans will be completed and construction started. A bill passed by the General Assembly provides \$125,000 in 1928 and a like sum in 1929, provided the War Memorial Commission, of which Senator C. C. Vaughan, Jr., of Franklin, is chairman, shall have raised \$75,000 for the bells.



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close April 10, 1928.

\$45,000 School Bonds

Radford, Va.
Sealed bids will be received 1 P. M. April 10 for \$45,000 issue of school bonds not to exceed 6% interest. Right is reserved to reject any or all bids. Address City Manager.

Bids close April 2, 1928.

Office of Constructing Quartermaster, Fort Bragg, N. C. Sealed proposals in triplicate will be received until 10 A. M., April 2, 1928, for the construction of two Field Artillery Battalion Barracks, six company officers' quarters, seven non-commissioned officers' quarters and all utilities. \$25 deposit required for drawings, etc. Further information on application.

Bids close April 24, 1928.

LEATHER, U. S. MARINE CORPS, QUARTERMASTER'S DEPARTMENT, WASHINGTON, D. C. SEALED PROPOSALS, in duplicate, will be received by the Depot Quartermaster, U. S. Marine Corps, 1100 South Broad Street, Philadelphia, Pa., until 11 A. M., 24th April, 1928, and then be publicly opened, for furnishing 9000 square feet russet leather and 5000 pounds buff leather. Proposal blanks and other information may be obtained upon application to this office and the Depot Quartermaster, U. S. Marine Corps, Philadelphia, Pa. C. L. McCawley, Brigadier General. The Quartermaster, Schedule No. 508.

RATE: 35 cents per line per insertion

PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close April 26, 1928.

TREASURY DEPARTMENT, Bureau of Engraving and Printing, Washington, D. C., March 14, 1928.—Sealed proposals are invited to furnish this Bureau with postage-stamp paper and internal revenue paper during the fiscal year beginning July 1, 1928. Contracts will be made only with actual manufacturers of the paper. Proposals to be received not later than 2 P. M., April 26, 1928. Blank forms, with specifications for proposals, and further information will be furnished on application to A. W. HALL, Director.

Bids close April 2, 1928.

\$325,000 5% Gold Bonds

Pensacola, Florida.

Sealed bids are invited until 2 o'clock P. M. on Monday, April 2, 1928, for all or any part of the following coupon bonds of the City of Pensacola, Florida, to wit:

\$100,000 Improvement Bonds, Issue of 1925, dated October 1, 1925, and maturing October 1, 1955.

\$225,000 Improvement Bonds, Issue of 1925, dated January 1, 1925, and maturing January 1, 1958.

Said bonds are of the denomination of One Thousand Dollars (\$1000) each and bear interest at the rate of five per cent (5%) per annum, payable semi-annually.

Bids must be on blank form furnished by the City of Pensacola.

Opinion of Messrs. Thomson, Wood & Hoffman, Attorneys at Law, of New York City on legality of said bonds will be furnished the purchaser.

For further particulars apply to the United States Mortgage & Trust Company, 55 Cedar Street, New York City, or T. C. Finch, Comptroller, City of Pensacola, Fla.

J. H. BAYLISS,
Mayor and Commissioner
of Finance and Revenue.

Attest:
J. E. FRANKEL,
City Clerk.

Bids close April 3, 1928.

State Highway

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building nine sections of State Highway as follows:

Washington County, Cont. W-53—One section of State Highway from Gapland toward Weaverton for a distance of 1.96 miles. (Concrete.)

Montgomery County, Cont. M-93—One section of State Highway along Carroll Avenue, in Takoma Park, a distance of 1.11 miles. (Concrete.)

Baltimore City, Cont. BC-74—One section of State Highway along the Harford Road, between Glenmore Avenue and Richmond Avenue, a distance of 0.5 mile. (Sheet Asphalt.)

Kent County, Cont. K-32—One section of State Highway through Betterton, a distance of 1.16 miles. (Concrete.)

Caroline and Dorchester Counties, Cont. Co-46 and D-47—One section of State Highway, between Hynson and Federalburg, for a distance of 2.17 miles. (Concrete.)

Wicomico County, Cont. WI-40—One section of State Highway, between Hebron and Quantico, for a distance of 2.5 miles. (Concrete.)

Washington County, Cont. W-1-B—One section of State Highway along the National Pike from Hancock west for a distance of 4.5 miles. (Concrete Shoulders.)

Harford County, Cont. H-3-C—One section of State Highway along the Conowingo Road from McCann's Corner to Hopkins Corner for a distance of 3.97 miles. (Concrete Shoulders.)

Prince George's County, Cont. P-1-A—One section of State Highway, between Meadows and Upper Marlboro, for a distance of 5.76 miles. (Concrete Shoulders.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Md., until 12 M. on the third day of April, 1928, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 15th day of March, 1928.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close April 10, 1928.

State Highways

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building nine sections of State Highway as follows:

Washington County, Cont. W-51—One section of State Highway from end of Cont. W-46 toward Cavetown for a distance of 1.48 miles. (Concrete.)

Frederick County, Cont. F-106—One section of State Highway from Middletown toward Jefferson for a distance of 1.5 miles. (Concrete.)

Baltimore City, Cont. BC-75—One section of State Highway along the Harford Road from Richmond Avenue to Orlando Avenue, a distance of 0.4 mile. (Sheet Asphalt.)

Queen Anne County, Con. Q-44—One section of State Highway from end of Cont. Q-39 toward the Delaware State Line and through Crumpton for a distance of 2 miles. (Concrete.)

Talbot County, Cont. T-29—One section of State Highway from end of Cont. T-26 to Cordova, a distance of 1.04 miles. (Concrete.)

Wicomico County, Cont. WI-47—One section of State Highway from end of Cont. WI-41 to the Delaware State Line, a distance of 1.12 miles. (Concrete.)

Frederick County, Cont. F-16-B—One section of State Highway from Emmitsburg to the Pennsylvania State Line, a distance of 1.25 miles. (Concrete Shoulders.)

Allegany County, Cont. A-1-B—One section of State Highway between Cumberland and Frostburg for a distance of 7.3 miles. (Concrete Shoulders.)

Cecil County, Cont. Ce-9-A—One section of State Highway from Porters Bridge to Rising Sun, a distance of 3.75 miles. (Concrete Shoulders.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 10th day of April, 1928, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 23rd day of March, 1928.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close April 16, 1928.

High School Building

Martinsburg, W. Va.

Board of Education will open bids at 2 o'clock April 16 for complete furnishings for a \$275,000 High School Building. Specifications can be secured from Frampton & Bowers, Architects, 412-14 Eleventh Street, Huntington, West Virginia.

Bids close April 13, 1928.

Additions to School Buildings

Birmingham, Ala.

Sealed proposals will be received by the Board of Education, Birmingham, Alabama, on or before 2 o'clock P. M. Friday, April 13, 1928, for the erection and completion of Additions to the following Elementary Schools to be erected in Birmingham, Ala.:

CENTRAL PARK and ROBINSON, also the erection and completion of the following new building:

J. L. N. CURRY.

Bids are invited on one building, all of the buildings or any number of the buildings. Combination bids are invited on one, all or any number of buildings and their divisions.

The work on each building will be divided into the following base bids:

1. General Work.
2. Plumbing, Sewering and Gas Fitting.
3. Heating and Ventilation.
4. Electric Work.

The plans and specifications of all buildings can be seen at the office of the Board of Education, Birmingham, Alabama, and the office of Warren, Knight & Davis, Architects, Empire Building, Birmingham, Alabama; Wm. B. Ittner, Consulting Architect, St. Louis, Mo.

Plans and specifications may be procured from the office of the Architects by forwarding certified check or cash as deposit as follows:

General plans and specifications \$10 per set.

Plumbing, Heating and Wiring \$15 for the entire group of these buildings. Deposits to be refunded under provisions mentioned in Instructions to Bidders.

The Board reserves the right to reject any and all bids.

By order of the Board of Education of Birmingham, Alabama.

By D. E. McKINLEY,
Business Manager.

Bids close April 17, 1928.

School Building

West Point, Miss.

Sealed bids will be received in the office of the Secretary of the Board of Trustees of the Public Schools of the City of West Point, Mississippi, which is in the office of the City Clerk of said city, at 10 o'clock A. M. Tuesday, April 17, 1928, for the erection of a school building on the old Lynch School lot, as per plans and specifications now on file in the office of the Clerk of this Board.

Separate bids will also be received for heating, plumbing and electrical work.

Bidders must give bond in an amount equal to their bid for the faithful performance of their contract, and must specify the time within which the work is to be completed.

The Board reserves the right to reject any and all bids.

The contract will be let to the lowest bidder.

By order of the Board of Trustees of the Public Schools of the City of West Point, Mississippi, this March 23rd, 1928.

W. H. VAN LANDINGHAM,
Clerk.

Bids close April 18, 1928.

Street Signs

DEPARTMENT OF PUBLIC WORKS
BUREAU OF MECHANICAL-ELECTRICAL SERVICE

Baltimore, Md.

Sealed bids or proposals, in duplicate, addressed to the Board of Awards and marked "Single Enamel, Double Enamel and Ruby Glass Street Signs."

In accordance with the specifications on file at the office of the Division of Lighting, Bureau of Mechanical-Electrical Service, third floor Municipal Building, Baltimore, Md., will be received at the office of the City Register, City Hall, Baltimore, Md., until Wednesday, April 18, 1928, at eleven (11) o'clock A. M., at which time they will be publicly opened by the Board of Awards and read.

No bid will be allowed to be withdrawn for any reason whatever after it has been deposited with the City Register.

Certified check of the bidder on a clearing-house bank, drawn to the order of the Mayor and City Council of Baltimore, in the amount recited in paragraph No. 2 of the Specifications must accompany each bid.

Bond in the amount of the contract price will be required of the successful bidder.

The Board of Awards reserves the right to reject any or all bids.

Specifications may be obtained at the office of the Lighting Division, Bureau of Mechanical-Electrical Service, Room No. 321 Municipal Building, Baltimore, Md.

C. F. GOOB,

Acting Mechanical-Electrical Engineer.

Bids close April 11, 1928.

School Supplies

DEPARTMENT OF EDUCATION
OFFICE OF THE
BOARD OF SCHOOL COMMISSIONERS
MADISON AND LAFAYETTE AVENUES
Baltimore, March 21, 1928.

SEALED PROPOSALS, in duplicate, addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 o'clock A. M. Wednesday, April 11, 1928, endorsed:

Proposals for Stationery, Art, Kindergarten and Class Room Supplies for the Department of Education.

Specifications for the above may be obtained at the office of the Director of Business Management of the School Board, Madison and Lafayette Avenues, Baltimore, Md.

Each bid must be accompanied by a certified check of the bidder for \$50, made payable to the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract and in an amount equal to the contract price, and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any or all bids.

JOSHUA R. JOLLY,

Acting Secretary Board of
School Commissioners.

Approved March 21, 1928.

WILLIAM F. BROENING,
President Board of Awards.

Bids close April 3, 1928.

Water Works and Sewer Improvements

Cowpens, S. C.

Sealed proposals will be received by the Sewer Commission and Commissioners of Public Works of Cowpens, S. C., until 2 o'clock P. M. April 3, 1928, for furnishing material and constructing water works and sewer improvements. The work includes approximately 12,000 feet of 6-inch and 8-inch cast-iron water mains, with valves and hydrants; 7000 feet of galvanized pipe lines, one elevated steel tank, 20,000 feet of 6-inch, 8-inch, 10-inch and 12-inch sewers, with manholes and flush tanks, and two septic tanks.

Each proposal must be accompanied by a cashier's check for five per cent of the amount of the bid, payable to Treasurer of Town of Cowpens, S. C., as bidder's guarantee. The town reserves right to reject any and all bids.

Plans and specifications may be seen at the Clerk's office in Cowpens and at the office of the Engineers. Specifications will be mailed on request.

C. M. SIMS, Clerk.

THE HARWOOD BEEBE CO.,
Engineers,
Spartanburg, S. C.

Hauling

Chester, Va.

WANTED—Subcontractor to haul two-ton batches in Virginia. Long job ready to start; seven miles dead haul over concrete.

G. Y. CARPENTER,
Chester, Va.

Bids close April 3, 1928.

Cleaning Water Main

Macon, Miss.

Notice is hereby given that the Mayor and Board of Aldermen of City of Macon, Miss., will, at their next regular meeting to be held on April 3, 1928, 7.30 P. M., receive bids for the following:

Cleaning one and one-half miles of six-inch water main. Contractor to furnish material, labor, equipment and superintendency. Also bids for contractor to furnish equipment and superintendency for cleaning said 6-inch water main.

Board reserves the right to reject any and all bids.

Done by order of Mayor and Board of Aldermen of City of Macon, Miss., this 7th day of March, 1928.

MARY B. SCOTT, Clerk.

Bids close April 2, 1928.

Water-Wheel Pumping Unit

Burlington, N. C.

Sealed bids will be received by the Mayor and Board of Aldermen of the City of Burlington, N. C., until 12 o'clock noon April 2, 1928, for the furnishing of one water wheel and centrifugal pump unit, comprising:

One 250 H. P. water wheel at 90% open under an effective head of 30-ft. water wheel, to be set in decked concrete penstock and wheel builders, to supply steel draft tube, wall rings and cover plates, thrust bearing and hand control, but no governor.

One centrifugal pump, direct connected to water wheel, without gears of any kind, of 2000 G. P. M. capacity, under a total static and friction head of 350 ft. Manufacturer may use any speed desired.

Plans of power house, now under construction, and any other information may be had on application to A. C. Linberg, Engineer, Burlington, N. C. Bidders will be required to furnish prints or cuts showing their proposed arrangements.

The right is reserved to reject any and all bids.

EARL B. HORNER, Mayor.
F. E. McPHERSON, City Clerk.

**CLASSIFIED OPPORTUNITIES****MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES****LIMESTONE DEPOSIT**

FOR SALE—Limestone deposit near Hawkinsville, Ga.; analysis 90% Lime.
ROBERT S. ANDERSON,
Hawkinsville, Ga.

MANGANESE DEPOSIT

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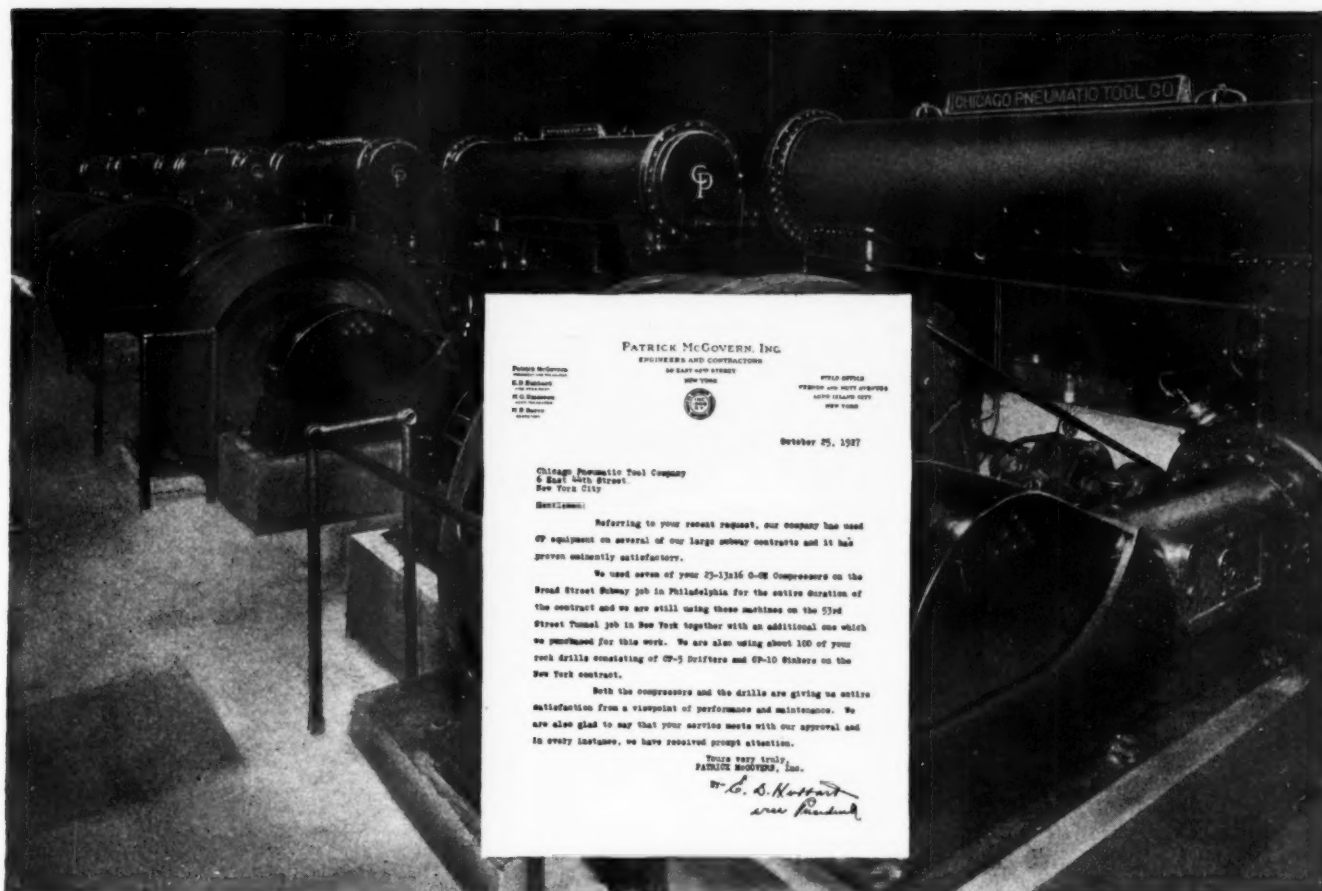
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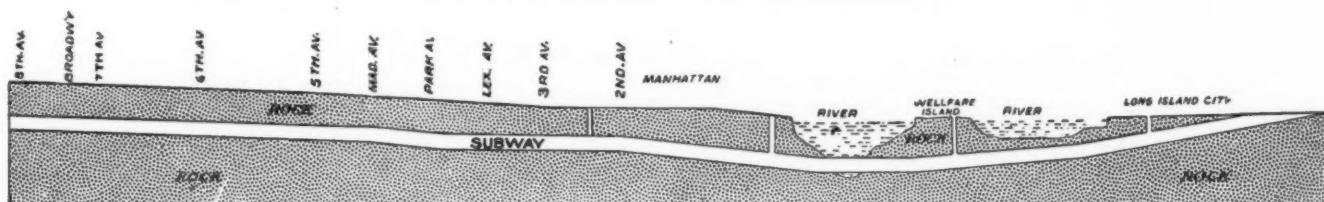


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